

Clark University Bulletin

NUMBER 48 ~~50~~

OCTOBER, 1926

DEPARTMENT OF PSYCHOLOGY

The Bulletin is published in January, February, March, April, May,
October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under
the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in
section 1103, Act of October 3, 1917, authorized January 24, 1921.

THE PEDAGOGICAL SEMINARY AND JOURNAL OF
GENETIC PSYCHOLOGY

This famous journal, founded by G. Stanley Hall in 1891, and devoted by him to the publication of research work in that phase of genetic psychology concerned with child behavior, is now the property of the Department of Psychology. It has been reorganized and will be conducted under the guidance of an international editorial board. Superior research reports from graduate students may be published in this journal. The Editors of this journal are Bird T. Baldwin, State University of Iowa; William H. Burnham, Clark University; Cyril Burt, University of London; Ed. Claparède, University of Geneva; Edmund S. Conklin, University of Oregon; Arnold Gesell, Yale University; William Healy, Judge Baker Foundation; Walter S. Hunter, Clark University; K. S. Lashley, University of Minnesota; Carl Murchison, Clark University; Henri Piéron, University of Paris; Sante de Sanctis, University of Rome; William Stern, University of Hamburg; Lewis M. Terman, Stanford University; E. L. Thorndike, Columbia University; John B. Watson, New York City; and Helen Thompson Woolley, Columbia University.

Genetic Psychology Monographs

This journal is edited and published by the *Pedagogical Seminary and Journal of Genetic Psychology*, and is under the supervision of the same international board of editors. Each number is a complete research, and may be contributed from any part of the world.

OTHER PSYCHOLOGICAL JOURNALS REPRESENTED
IN THE DEPARTMENT

Doctor Hunter is Editor of the *Comparative Psychology Monographs*, *The Psychological Index*, *The Psychological Abstracts*, and is also Associate Editor of the *Journal of Comparative Psychology*. Doctor Nafe is Associate Editor of the *American Journal of Psychology*.

THE G. STANLEY HALL ROOM

Dr. Robert Hall has given to the department his father's entire library, including pictures and furniture. This library has been reconstructed in one of the rooms of the psychological laboratories, and is available for inspection by former students of G. Stanley Hall and others interested. This is by no means a departmental library, but is a memorial to which may be added other objects of significance in the life of G. Stanley Hall.

WORK IN EDUCATION

Upon the retirement of Professor William H. Burnham, the department of education was combined with the department of psychology. To the position of Associate Professor of Educational Psychology Vernon A. Jones of Columbia University has been called to Clark. He will offer undergraduate instruction in general educational problems as well as in educational psychology, and will offer graduate instruction in the theory and practice of tests and measurements.

FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

UNDERGRADUATE WORK

The department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

GRADUATE WORK

ADMISSION. Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the success-

political, and economic conditions of the United States; American education and world citizenship.

Three hours, first semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

17b. PHILOSOPHICAL AND HISTORICAL FOUNDATIONS OF MODERN EDUCATION. By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

Three hours, second semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

200a. SYSTEMATIC PSYCHOLOGY. This course together with 201b, 203a, 204b offers a two year course in which the semester units are separable. It is a systematic study of the work that has been done in Experimental Psychology. 200a deals with vision and audition.

Three hours, first semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

201b. SYSTEMATIC PSYCHOLOGY. Smell, taste, touch and the image.

Three hours, second semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

202. SOCIAL PSYCHOLOGY. A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

Two hours, through the year. Th. 4. PROFESSOR MURCHISON

203a. SYSTEMATIC PSYCHOLOGY. Affection, emotion, attention, perception and idea in their systematic aspects.

Three hours, first semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

New course, to be offered in 1927-28.

204b. SYSTEMATIC PSYCHOLOGY. The position of association, memory, imagination, thought, action and volition in systems of Psychology, especially in the Structural system. The treatment of these subjects is historical as well as systematic. Little attention is given to the application of principles.

Three hours, second semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

New course, to be offered in 1927-28.

205a. THE LEARNING PROCESS. A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

Three hours, first semester. M. W. F., 11.

PROFESSOR HUNTER

206b. ANIMAL BEHAVIOR. A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

Three hours, second semester. M. W. F. 11.

PROFESSOR HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

301a. SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, first semester. Tu., 11. PROFESSOR HUNTER

302b. SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A continuation of the first semester Seminar, but not necessarily preceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

Two hours, second semester. Tu., 11. PROFESSOR HUNTER

303b. MECHANICS OF MENTAL DIFFERENCES. The various mental tests will be studied in their historical development, with special attention to formulation, application, and final interpretation of results.

Two hours, second semester. F., 4. PROFESSOR MURCHISON

304. JOURNAL CLUB. To be devoted to the study of selected topics in current Psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4.

PROFESSORS MURCHISON, HUNTER, NAFE, AND JONES

305. RESEARCH. All students majoring in the Department of Psychology for advanced degrees will be expected to undertake a suitable research problem under the direction of Professors Murchison, Hunter, Nafe, or Jones.

310a. CHILD BEHAVIOR. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, first semester. F., 4. PROFESSOR MURCHISON

312. ADVANCED EXPERIMENTAL PSYCHOLOGY. Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique.

ASSOCIATE PROFESSOR NAFE

313a. ADVANCED EDUCATIONAL PSYCHOLOGY: TECHNIQUES OF QUANTITATIVE EXPERIMENTATION IN EDUCATION. The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial r ; partial and multiple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention

will be given not only to statistical measures but also to methods of setting up experiments.

Two hours, first semester. Saturday 9-11.

ASSOCIATE PROFESSOR JONES

314b. METHODS IN EDUCATIONAL MEASUREMENT. General trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis, and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principals and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

Two hours, second semester. Saturday 9-11.

ASSOCIATE PROFESSOR JONES

315. HISTORY OF PSYCHOLOGY. Selected topics in the history of psychology.

One hour, through the year.

PROFESSOR MURCHISON

316. ABNORMAL PSYCHOLOGY. Class room lectures and clinical demonstrations.

Two hours, first semester.

DR. BRIDGES

317b. THE PROBLEM OF INTELLIGENCE AS MEASURED. A seminar and research course in various measurable factors involved in the intelligent act.

Two hours, second semester.

PROFESSOR MURCHISON

To be offered in 1927-28.

THE PEDAGOGICAL SEMINARY And Journal of Genetic Psychology

Quarterly. Published in March, June, September, and December. Devoted to child behavior, differential and genetic psychology. Seven hundred pages annually. Per annum \$7.00, single numbers \$2.00. Complete sets from 1891 at \$7.00 per volume, plus transportation.

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**THE PEDAGOGICAL SEMINARY
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CLARK UNIVERSITY

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Nos. 1 and 2. The Mind of a Gorilla Robert M. Yerkes	\$3.00
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Submit all manuscripts and send all communications to

GENETIC PSYCHOLOGY MONOGRAPHS

CLARK UNIVERSITY

Worcester, Massachusetts, U. S. A.

CRIMINAL INTELLIGENCE

BY

CARL MURCHISON, PH.D.

Professor of Psychology and
Director of the Psychological Laboratories
in Clark University

For lawyers, physicians, sociologists, psychologists, social workers, and those primarily interested in the problems of social conduct.

CHAPTER

PART I. OPINIONS AND NORMS

1. Pre-War Contemporary Opinion
2. The Idea that Criminals are Feeble-Minded
3. Extent to Which Army and Criminal Norms are Representative

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4. Some Geographical Concomitants
5. Intelligence and Types of Crime
6. Intelligence and Recidivism
7. Literacy
8. Chronological Age
9. Industrial Occupations
10. Some Technical Statistical Results
11. Religion
12. Seasonal Distribution
13. Length of Incarceration
14. Height and Weight
15. Some Marital Concomitants

PART III. WHITE FOREIGN BORN CRIMINALS

16. Some Geographical Concomitants
17. Types of Crime
18. Recidivism
19. Literacy
20. Chronological Age

PART IV. NEGRO MEN CRIMINALS

21. Some Geographical Concomitants
22. Types of Crime
23. Recidivism
24. Literacy
25. Religion
26. Length of Incarceration
27. Occupational Concomitants
28. Height and Weight
29. Seasonal Distribution
30. Chronological Age
31. Some Marital Concomitants

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This book differs decidedly from most books in this field in that it does not support a policy of maternalism towards criminals. The author in his concluding chapter supports the following changes in criminal court procedure:

1. The abolition of the jury system.
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CLARK UNIVERSITY

DEPARTMENT OF PSYCHOLOGICAL PUBLICATIONS

Worcester, Massachusetts

U. S. A.

PSYCHOLOGIES OF 1925

POWELL LECTURES IN PSYCHOLOGICAL THEORY

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- Chapter 5. "Dynamic Psychology" Robert S. Woodworth

PART III. GESTALT

- Chapter 6. "Mental Development" Kurt Koffka
Chapter 7. "Intelligence of Apes" Wolfgang Koehler
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- Chapter 9. "Three Fundamental Errors of the Behaviorists and the Reconciliation of the Purposive and Mechanistic Concepts" Morton Prince
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Chapter 11. "The Problem of Personality: How Many Selves Have We?" Morton Prince
Chapter 12. "Men or Robots?" I William McDougall
Chapter 13. "Men or Robots?" II William McDougall

PART V. REACTION PSYCHOLOGY

- Chapter 14. "The Theoretical Aspect of Psychology" Knight Dunlap
Chapter 15. "The Experimental Methods of Psychology" Knight Dunlap
Chapter 16. "The Applications of Psychology to Social Problems" Knight Dunlap

PART VI. PSYCHOLOGIES CALLED "STRUCTURAL"

- Chapter 17. "Historical Derivation" Madison Bentley
Chapter 18. "The Work of the Structuralists" Madison Bentley
Chapter 19. "The Psychological Organism" Madison Bentley

Through the generosity of Dr. Elmer Ellsworth Powell, Clark University has been enabled to invite a group of the world's distinguished psychologists to lecture at Clark on the fundamental concepts of contemporary psychology. A majority of the world's significant schools of psychology are thus represented. The series constitutes a unique and significant cross-section of the theoretical bases of contemporary psychology. Here are the norms with which later the Psychologies Of 1935 or the Psychologies Of 1950 can be directly compared.

This book is highly suitable for use as a text-book in advanced courses in general or theoretical psychology. The volume contains a full-page half-tone of each author in the series, each one being inserted at the proper place in the volume. Approximately five hundred pages of solid ten-point type, 4 by 6.5. Beautifully bound in red cloth, each volume incased in a heavy mailing box. Psychologies Of 1925 will be mailed, postpaid, to any address in the world upon receipt of proper order. Price \$6.00. Off the press May 1, 1926. Make checks payable to Clark University.

CLARK UNIVERSITY
Department of Psychological Publications
Worcester, Massachusetts
U. S. A.

Clark University Bulletin

NUMBER 52

DECEMBER 1926

The Summer School 1927

July 5—August 12

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October, November, and December

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under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided
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Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	9	10	11	Afternoon	
					12	1
ABRAMS					Geog. 182n.y.	
ATWOOD, L.L.					French 2	
BRANDENBURG	Economics 4*	Economics 1a				Geography 32*
BROOKS	Geography 12c		Geography 12w			
BURNHAM					Geography 19c	
BYE	History 15				Geography 19m	
COLLIER	History 21*	History 22*			History 16	
CURTI			History *24	History *23		
DANIELS		English 2	English 1		Geography 27*	
EKBLAW			Geography 142			Geog. 300*
HODGE		German 2	German 1			
ILLINGWORTH			English 15	English 5		
JONES, C.	Geography 14	Geography 101				Geography 34*
JONES, V.		Psychology 11	Psychology 12	Geology 1		
LITTLE	Geology 2				Geog. 18m†	
RIDGLEY	Geography 28s*	Geography 18e				Geog. 10f§
VAN ROYEN				Geography 104		Geog. 30*†
GEOG. STAFF						

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer school from those given during the regular academic year, is omitted.
 § Friday afternoons and Saturdays. † Wednesdays at 3. Geog. 10f§ Geog. 30*†

Calendar

- July 5, Tuesday, 9 A. M. Registration begins.
12 M. Opening Assembly.
8-10 P. M. Reception to Members of the Summer School by the Summer School Faculty.
- July 6, Wednesday, 8 A. M. Lectures and recitations begin.
- July 7, Thursday, 8 P. M. Open lecture. "Beyond the Northern Lights." Illustrated. Mr. W. Elmer Ekblaw.
- July 14, Thursday, 8 P. M. Open lecture. "Great Britain's Economic Position." Mr. Samuel J. Brandenburg.
- July 21, Thursday, 8 P. M. Open lecture. "Standards for the Selection of Pictures for Educational Use." Mr. W. A. Abrams.
- July 23, Saturday. Trip to Plymouth and vicinity [under the direction of the History Department.]
- July 28, Thursday, 8 P. M. Open lecture. "Some Observations on Education in Palestine and Syria." Mr. Vernon A. Jones.
- July 29, Friday, P. M. Trip to Concord and Lexington [under the direction of the History Department.]
- Aug. 4, Thursday, 8 P. M. Open lecture. "Modernizing Turkey." Mr. Theodore Collier.
- Aug. 11, Thursday, 8 P. M. Final Assembly. Conferring of Degrees.
- Aug. 13, Saturday, 8 A. M. Field trips begin.
- Aug. 26, Friday. Field trips end.
- All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

Committee on the Summer School

THE PRESIDENT OF THE UNIVERSITY
THE DIRECTOR OF THE SUMMER SCHOOL
MESSRS. BLAKESLEE, MELVILLE, MURCHISON

Officers of Instruction and Administration

- *WALLACE WALTER ATWOOD, PH.D. Geography
B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.
- DOUGLAS CLAY RIDGLEY, PH.D. Geography
A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Associate Professor of Geography in Education, Clark University.
- CHARLES FRANKLIN BROOKS, PH.D. Meteorology and Climatology
A.B., Harvard University, 1911; A.M., 1912; Ph.D., 1914. Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, PH.D. Geography
B.S., University of Chicago, 1917; Ph.D., 1923. Associate Professor of Economic Geography, Clark University.
- WALTER ELMER EKBLAW, PH.D. Geography
A. B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Geologist and Botanist, Crockerland Expedition, 1913-17. Associate Professor of Geography and Managing Editor of *Economic Geography*, Clark University.
- ALFRED WILLIS ABRAMS, PH.B. Geography and Education
Director, Visual Instruction Division, New York State Department of Education.
- GUY H. BURNHAM, A.M. Cartography
A.B., Clark University, 1916; A.M., 1922. Cartographer, Clark University.
- WILLEM VAN ROYEN. Geography
Graduate, University of Utrecht, Holland, 1925. University Fellow, Clark University, 1926-27.
- HOMER PAYSON LITTLE, PH.D. Geology
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910. Dean of the College and Professor of Geology, Clark University.

*To be absent in 1927, conducting European Field Trip.

THEODORE COLLIER, PH.D.	History
A.B., Hamilton College, 1894; A.M., 1897; Ph.D., Cornell University, 1906. Professor of History and International Relations, Brown University.	
MERLE EUGENE CURTI, A.M.	History
A.B., Harvard College, 1920; A.M., Harvard University, 1921. Assistant Professor of History, Smith College.	
EDGAR C. BYE, A.M.	History
A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of Social Studies, Cumberland Valley State Normal School, Shippensburg, Pennsylvania.	
SAMUEL J. BRANDENBURG, PH.D.	Economics
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.	
VERNON A. JONES, PH.D.	Psychology and Education
B.A., M.A., University of Virginia, 1920; M.A., Columbia University, 1924; Ph.D., 1926. Associate Professor of Educational Psychology, Clark University.	
EARL R. K. DANIELS, PH.D.	English
A.B., Clark University, 1914; Ph.D., Harvard University, 1926. Professor of English, State Normal School, Buffalo, N. Y.	
ROBERT STANLEY ILLINGWORTH, A.B.	English and Dramatics
A.B., Clark College, 1917; Student, American Academy of Dramatics, 1917-18. Professor of Public Speaking and Director of Dramatics, Lafayette College.	
LELAND LEAVITT ATWOOD, A.M.	French
A.B., Clark University, 1916; A.M., Cornell University, 1922. Instructor in Romance Languages, Clark University.	
THEKLA E. HODGE, B.ED.	German
Head of the Department of Modern Languages, Athol, Mass., High School, 1920-25.	
EUGENE C. BELKNAP	Source Material in Economic Geography
	Curator, Department of Chemistry.
CAREY EYSTER MELVILLE	Registrar
FLORENCE CHANDLER	Bursar

The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, History and Psychology are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, and a knowledge of the history of peoples and of how they make a living as well as an appreciation of social psychology should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

In addition to courses in Geography and allied subjects the Summer School intends to provide at each session as many courses for students whose interests lie outside these fields as the demand and the facilities of the University for giving summer instruction may justify. Such courses are offered for the summer of 1927 in Geology, English, French, and German.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program, and many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography Work-room are in the Geography Building where some classes are held.

In the Science Building are located the lecture rooms and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the institution, and affords favorable opportunities for study and research. The Library now owns more than 116,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the Circulating Department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 148,000 volumes, and some 223,600 pamphlets. In addition to the Society's valuable manuscript of the Colonial period, it has an unequaled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in school of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualifications for the work which they desire to do.

Students in the Collegiate Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the Collegiate Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars, to the Registrar of Clark University. The amount of the regis-

tion fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 5. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, the Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Tuesday, July 5, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 5, at 12 o'clock. Class work will begin promptly on Wednesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students. Undergraduate courses only are offered in Psychology, foreign languages, and English.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Collegiate Department of the University may secure not more than six semester hours of credit towards the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the Collegiate Board and that programs of study be approved by the Registrar.

THE BACHELOR OF EDUCATION DEGREE

The detailed requirements for this new degree for teachers, which

was established by the University in the fall of 1923, are published in the General Catalogue.

The degree is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent. Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned *in residence* at Clark University. The completion of 120 hours of college credit is required for this degree. The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met.

THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during four or more sessions, preparing an acceptable thesis, and passing a satisfactory oral examination. Courses intended for graduate credit are designated by an asterisk (*) in the announcement of courses in this Bulletin. All programs of work to be applied toward the requirements for the degree of Master of Arts, should be approved in advance by the major department concerned.

TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Department of Geography, see page 12.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. This fee is paid only once and is not returnable.

Tuition may be paid at any time before noon of Saturday, July 9. Checks should be made payable to Clark University.

BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary *except bedding*. The Hall is very conveniently located. A number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Early correspondence is invited, as a number of rooms have already been reserved by former students. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, and one or more of the college fraternity houses will probably be available for the accommodation of a limited number of Summer School students.

OUTSIDE ACTIVITIES

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

EXCURSIONS

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett; Mt. Monadnock; the Connecticut valley including Mt. Tom; Plym-

outh; Provincetown; Boston, Salem and Marblehead; the Wayside Inn; Lexington and Concord; Cohasset, famous for its carillon.

In 1926, excursions were made to some of Worcester's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, and the Whit-tall Rug Factory.

For the coming session trips will be planned to suit the interests of the student body.

ILLUSTRATIVE MATERIALS

Mr. Eugene C. Belknap, Curator, Department of Chemistry, will provide a selection of literature, pictures, and specimens appropriate for use in geography teaching. A general meeting of interested teachers will be called early in the summer session, at which the method of securing such material will be explained. After the first general meeting Mr. Belknap will give special information to groups of teachers or to individuals during the remainder of the term.

DRAMATICS

The public performances of the class in Dramatics, English 5, are among the pleasantest features of the Summer School session. There are always two or three in the fine theater proper of the University and a third, generally scenes from Shakespeare, in the open-air theatre.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

DEPARTMENT OF GEOGRAPHY FIELD TRIPS

EUROPEAN FIELD TRIP

Geography. *SS204f. During the summer of 1927, President Atwood will conduct, in co-operation with Professor W. H.

Barker, of the University of Manchester, Manchester, England, a field trip in Great Britain, followed by a three weeks' trip on the Continent. The party will sail from Montreal June 28 and arrive in Glasgow July 5. From Glasgow the party will travel by auto-bus through the historic and industrial centers of Scotland, Wales, and England, guided by Professor Barker. The trip will end after a four days' stay in London on July 31 for those who take the British trip only. Those who take the Continental trip also will leave London August 1, spend the following three weeks in Holland, Belgium, the Rhine valley, Switzerland, and France, with four days in Paris, and sail for New York on August 20.

The fee for the trip through Great Britain, including transportation and tuition, is \$715; an additional fee of \$230 will cover the trip on the Continent. Passports and incidentals are extra.

At the date of publication of this Bulletin, there are a few vacancies in the party. Inquiry regarding these should be addressed to President Atwood, at Clark University.

European Trip for 1928. If the demand is evident, a similar trip covering the same or other territory will be arranged for the summer of 1928. Those interested are requested to communicate with the President of the University, or the Director of the Summer School at an early date.

FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

Two field trips are offered following the Summer School. Each trip will be made by motor bus with accommodations for twenty-two persons. Both trips begin Saturday, August 13, at 8 A. M., daylight saving time, 7 A. M. Eastern standard time, and continue for two weeks, returning to Worcester on Friday evening, August 26. These trips are open to any teacher or student who wishes to study Geography-out-of-doors, whether a member of the Summer School or not. The tuition fee for each trip is \$15; the cost of transportation is \$60; hotel expenses, including meals, are estimated at \$60. Persons coming from a distance to join either trip should arrive in Worcester not later than Friday, August 12. Rooms may be obtained near the University. Reservations will be made on request.

Each trip involves special studies of the natural environment, with definite relationship to human activities.

All inquiries concerning enrollment, reading lists, and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts. As soon as reservation for a trip has been made, the student will be put into communication with the instructor in charge.

Early correspondence is invited, as final arrangements must be completed early in July.

The right is reserved to withdraw either or both of these trips if a sufficient number of advance registrations is not received.

New England Field Trip. This trip will cover the same region as in 1924 and 1925. *The route:* Worcester, Providence, Newport, New Haven, Hartford, Springfield, Holyoke, Greenfield, Mohawk Trail, Williamstown, Rutland, Burlington, Montpelier, White Mountains, Saco Valley, Portland, Portsmouth, Salem, Marblehead, Boston and vicinity, Plymouth, Provincetown, Brockton, Wayside Inn, Worcester. *Special fields of study:* Blackstone Valley, Connecticut Valley, Champlain Lowland, White Mountains, New England shore features, historic and literary places of note, selected industrial plants. This trip will be in charge of a competent leader to be announced later.

The Lake Champlain-Montreal Trip. *The route:* Worcester, Keene, Rutland, Burlington, St. Albans, St. Johns, Montreal, Laurentian Upland, Ottawa, Prescott, the Thousand Islands region, Watertown, Utica, Albany, Pittsfield, Springfield, Worcester. *Special fields of study:* The Champlain Lowland, the St. Lawrence Lowland, the port of Montreal, Montreal as a manufacturing center, contacts between the Laurentian Upland and the St. Lawrence Lowlands. This trip will be in charge of Professor Clarence F. Jones of Clark University who has done extensive field work in the region.

CREDIT FOR FIELD TRIPS

Two semester hours of credit will be granted for each trip and satisfactory field notes. An additional hour will be granted for an acceptable geographic study of some phase of the field investigation. This study may be an essay of three thousand words or more, or in other form satisfactory to the instructor. The written report is due on or before January 15, 1928.

DEPARTMENTAL ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the Geography Workroom.

Courses marked with an asterisk (*) are primarily for advanced students.

SS101. Geography of North America. A regional study of the continent; an analysis of the relation of the physical environment in the various sections to the agriculture, manufacturing, and commerce.

A recitation course in which the registration will be limited to 25.
Daily, except Saturday, at 9. MR. C. JONES

SS142. The Geography of United States Agriculture. A course in the relation of physical environment to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Daily, except Saturday, at 10. MR. EKBLAW

SS104. Geography of Europe. The course will include: the general structure of the continent and its surrounding seas, the main physiographic features, climate and vegetation; chief agricultural regions, centers of mineral production, industrial areas; areas of greater and less concentration of population; aspects of intensive utilization of natural conditions; examples of the rôle and importance of historical factors; people, political geography, etc.

Daily, except Saturday, at 11. MR. VAN ROYEN

SS14. Economic Geography. A survey of the leading world commercial products from a world standpoint. Geographic conditions underlying production, trade and manufacture of these commodities.

A recitation course in which the registration will be limited to 25.
Daily, except Saturday, at 8. MR. C. JONES

SS12w. Weather. An elementary laboratory science course that is fundamental to all work in meteorology or climatology. Each member of the class will have his own thermometer and will keep a daily record of the weather and make daily weather forecasts. A small balloon will be sent up before each meeting of the class. Elementary meteorology will be discussed systematically and will be illustrated by observations and experiments made by members of the class.

Daily, except Saturday, at 10. Laboratory Monday 7-8 p. m., and at other times specially arranged. MR. BROOKS

SS12c. Climate. An elementary laboratory science course introductory to more detailed studies of climatology and climates of the world, but sufficiently complete in itself to provide a geography teacher with the fundamental principles and the more important facts of climatology. Each member of the class will have a thermometer with which to observe the differences between temperatures of inland and coastal locations and between hill or mountain temperatures and those of the lowlands. Some of the characteristics of mountain climates and of marine climates will be learned at first hand on field trips to Mount Monadnock and to the seashore.

Prerequisite: Geography SS12w or the Weather and Climate course of the summer school of 1925, or the equivalent.

Daily, except Saturday, at 8. Laboratory Monday or Tuesday, 2-4 p. m., except on weeks with field trips. MR. BROOKS

SS18e. The Teaching of Geography in the Elementary School. An examination of recent courses of study. Methods of presentation suitable for elementary school and junior high school, including the problem method and project method. Standard equipment for geography teaching. Local field lessons and their application to the various grades. Wide library reading; consideration of the effective use of pictures, maps, and printed matter in the geography textbook. The library contains an extensive collection of recent books for teachers and pupils, and the Geography

Workroom offers exceptional opportunities for the making of maps for classroom use. Students should bring with them the textbooks used in their schools.

Daily, except Saturday, at 9.

MR. RIDGLEY

SS182 n.y Geography of New York State. A subject matter course covering the several distinct regions of the state, the adaptation and the utilization of each for different purposes, topical treatment; a course in principles and method applied specifically to an area presenting a wide range of geographic phenomena. Large use will be made of screen pictures, photographs, maps and books of reference. The two primary aims of the course are: first, to lead the student to visualize the state clearly; second, to give the student an understanding of the visual method of instruction as applied to geography.

Daily, except Saturday, at 11.

MR. ABRAMS

* **SS19c. Graphics and Cartography.** This course will aim to help teachers to a better understanding of graphic methods and map projections. Some time will be spent in the construction and discussion of charts, graphs, and diagrams, but the major part of the course will be devoted to cartography. The more important map projections will be drawn and their advantages and disadvantages discussed. This work will be supplemented by a survey of the map and atlas collection in the Geography Workroom.

Daily, except Saturday, at 11.

MR. BURNHAM

SS19m. Mathematical Geography. A study of the earth's relations to the sun, moon, and other heavenly bodies and their influence on human life. The seasons, changing length of day and night, latitude, longitude, time, and the calendar, receive attention. The principal constellations will be observed and studied. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Daily, except Saturday, at 12.

MR. BURNHAM

SS18m. Materials in Geography. A study of geography exhibits available in the University. Preparation of typical exhibits for school museum. A study and classification of printed matter obtainable for school use at small cost from various sources in

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+ Certain students were permitted to do extra work recommended for plus credit by B.S.S.B. with consent of S.C.R. This credit has been allowed toward B.Ed. since the students undertook it in good faith.

United States and foreign countries. Group conferences and individual conferences.

Credit 2 semester hours for those regularly enrolled and carrying out all suggested work of the course.

Mondays, 3 to 5 P. M. MR. RIDGLEY AND MR. BELKNAP

SS10f. Field Work in Geography. To meet a demand for training in field observations this course is so planned that the students will make a number of excursions to places of special interest in New England. Students planning to take this course must reserve Friday afternoon and all day Saturday of each week.

Field excursions will be by motor bus. Friday afternoons may be used for shorter trips. Occasionally it will be necessary in order to reach more distant points to start Friday afternoon and to return late Saturday night.

Friday afternoon, and all day Saturday. THE GEOGRAPHY STAFF

***SS27. Influences of Geographic Environment.** A review of geographic factors in history, classes of geographic influences, society and state in relation to the land, and movements of peoples in their geographical significance; location, area, boundaries, coasts, oceans, and seas, as factors in human activities; the anthropogeography of rivers, continents and their peninsulas, islands, plains, steppes, and deserts, and mountain barriers and their passes; the influences of mountain environment, and of climate.

Daily, except Saturday, at 12. MR. EKBLAW

***SS28s. Geography in Education for Special Teachers.** A general view of geography in the elementary school, normal school, college and university. Opportunity for each member of the class to work out plans for teaching or supervision in fields of special interest, with special reference to the work of next school year. A study of the geography equipment at Clark University in relation to the needs of members of the class. Problems of making courses of study for individual use or for a school system. A few illustrative field lessons. The Library and Geography Workroom are well equipped for pursuit of this course. This course was formerly SS27.

Daily, except Saturday, at 8. MR. RIDGLEY

***SS204f. European Field Trip.** See page 11.
June 28 to about September 1. MR. ATWOOD

***SS30. Seminar in Geography.** Discussion for graduate students of geography; review of recent publications. Reports on thesis work.

Wednesday at 3.

THE GEOGRAPHY STAFF

***SS300. Research in Regional Geography.** For students who are prepared and ready to undertake thesis work in partial fulfillment of the requirements for a graduate degree.

MR. EKBLAW

***SS32. Research in Climatology.** For properly qualified graduate students only.

MR. BROOKS

***SS34. Research in Economic Geography.**

MR. C. JONES

Home Study in Geography. Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school, have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. A bulletin describing all courses offered will be sent on request. Sample lessons of one or two courses will be sent on request.

The following Home Study Courses are now ready:

COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
2. The Teaching of Home Geography and World as a Whole.
3. The Teaching of North America.
4. The Teaching of South America, Europe and Asia.
5. The Teaching of Geographic Factors and the United States in its World Relations.

ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.

10. Geography of the Eastern Continents.
11. The Physical Geography of the Lands.
12. Weather and Climate.
13. The Passing Weather.
14. Climatology and Climates of the World.
15. Climatology of the United States.

GEOLOGY

SS1. Physiography. This course will consist of text book, map, and field study of the origin of land forms. The work of weather, wind, river, glacier, and wave will be systematically studied. It is believed that every teacher of geography should have some familiarity with topographic maps. Therefore the interpretation of such maps will in part replace assigned readings.

Four lecture-recitation periods and one laboratory period weekly.

M. Tu. Th. F. at 12.

MR. LITTLE

SS2. Structural and Historical Geology. This course will open with a study of the properties and methods of identification of the common minerals and rocks which compose the earth, followed by a brief study of such rock structures as bedding planes, fissures, faults, folds, and unconformities. Some drill in the drawing and interpretation of block diagrams will be given.. The latter half of the course will consist of an outline study of the development of the North American continent and the evolution of life as revealed in the rocks.

Four lecture-recitation periods and one laboratory period weekly.

M. Tu. Th. F. at 8.

MR. LITTLE

HISTORY

***SS21. The Revolutionary and the Napoleonic Era.** A course on the breakup of the Old Regime in Europe and the transition to the XIX Century. Among the principal topics to be treated are: The Old Regime; the forces of progress and liberalism; precursors of the Revolution; the Revolution, its outbreak, development, and spread; the reaction of Europe; wars of the Revolution and the rise of Napoleon; reorganization of France; expansion of the Napoleonic Empire; the Revolt of the Nations and the overthrow of Napoleon; permanent results of the Revolution, and Napoleon's place in history.

Method: lectures, assigned reading, discussions and reports.

Daily, except Saturday, at 8.

MR. COLLIER

***SS22. European International Relations Since the World War.** A course on the principal international problems arising from the war and the readjustment of the relations of the European states to one another and to the non-European world. Among the principal topics to be considered are: the treaties of peace and their execution; economic reconstruction, especially in its international aspects; debts and reparations; boundary disputes; the question of minorities; main lines of foreign policy; present diplomatic alignment; new economic rivalries and their dangers; forces making for peace and stability, the League of Nations, World Court, security pacts; unsettled questions, and the outlook for the future.

Method: lectures, assigned reading, discussions and reports.

Daily, except Saturday, at 9.

MR. COLLIER

***SS23. Social and Intellectual History of the United States** This course will trace, by periods, the development of a distinctive American society. The inter-relation between European and American social and intellectual movements will be emphasized, and the religious beliefs as well as the artistic, intellectual, and scientific interests of the people will be studied.

Daily, except Saturday, at 11

MR. CURTI

***SS24. American Colonial History.** The period will be studied from the point of view of the expansion of Europe, with emphasis on the chief features of the old colonial system. The subject is also well adapted to exercises in historical method.

Daily, except Saturday, at 10.

MR. CURTI

SS15. Problems in American National Government. A study of selected problems of current interest to teachers and others, such as the extension of federal authority, the relations between the executive and legislative branches of the government, the powers of the Supreme Court and the nature of the electoral system. Readings, reports and lectures.

Daily, except Saturday, at 8.

MR. BYE

SS16. The Teaching of History in Junior and Senior High Schools. The technique of teaching history will be presented as the direction of learning rather than the imparting of information. The course deals with the practical problems of the classroom: supervised study, the inductive recitation, the socialized recitation, projects, visual aids, dramatization, the selection and use of textbooks and reference books, collateral reading, notebooks and

other written work, drill and review, testing, marking and the teaching of current history. Readings, reports and discussions.

Daily, except Saturday, at 12.

MR. BYE

ECONOMICS

SS1a. Principles of Economics. The complete course which is to be offered in two parts, SS1a in 1927, SS1b in 1928 and alternately thereafter, is the equivalent of Economics 11 offered three hours a week through both semesters of the regular academic year. The purpose of the course is to assist the student in thinking clearly and accurately on economic subjects and in applying fundamental principles to actual conditions.

The course opens with a brief survey of the development of our present economic organization. It seeks to introduce the student to an understanding of the human activities and the social processes which are directed toward the end of gaining a living; to give him a comprehension of the principles underlying the production and valuation of economic goods; to call attention to the various aspects of our economic specialization, and interdependence. It gives some attention to the technical and administrative organization of business enterprises.

Daily except Saturday, at 9.

MR. BRANDENBURG

***SS4. Major Economic Problems.** This course approaches the study of important contemporary problems in an endeavor to throw light upon them from the point of view of the economist. Such questions are considered as immigration and population; the economic aspects of our tariff policy, especially as it affects different sections of the country; labor organization; strikes and industrial unrest; the tendency toward co-operation and industrial democracy; and the question of women and children in industry. Class-work will be conducted by means of discussion and reports on these and similar specific topics.

Daily, except Saturday, at 8.

MR. BRANDENBURG

PSYCHOLOGY AND EDUCATION

SS10. The Visual Method of Instruction. Picture expression and language expression compared; the psychological basis for the use of visual aids in instruction; the relation of pictures

to the imagination, to interest and to effort; the place and limits of picture expression; definition and essentials of the visual method; relation to particular studies; the equipment needed and how to use it; the extent to which the method may be used with profit; types of visual aids and the special value of each; standards for selection of pictures; how to read pictures. Demonstration lessons, conferences, criticisms of particular pictures, exhibits.

The observation and interpretation of pictorial representations and a conception of proper standards of picture expression are means of pleasure and profit in study as well as in teaching. The course should be of interest to teachers of any subject that deals with the objective world.

Daily, except Saturday, at 12.

MR. ABRAMS

SS11. Tests and Measurements Applied. The course will give a rapid resumé of the best available standardized tests, both mental and educational. Special emphasis will be placed upon: use of test results; improvement of teachers' examinations; improvement of marking systems; the place of measurement in education; the unmeasurable outcomes of teaching.

Daily, except Saturday, at 10.

MR. V. JONES

SS12. Present Day Demands upon the Schools. (*Philosophy of Education*) The place and function of public education in our complex society will be examined with a view of adapting the curricula to present needs. Some of the topics to be discussed are: education as related to health, civic, economic, religious, and recreational life; the nature of individual differences as they affect methods of teaching and the curriculum; modern trends in curriculum construction.

Daily, except Saturday, at 11.

MR. V. JONES

ENGLISH

SS1. Backgrounds of Literary Criticism. A study of the principles of criticism from Plato to Pater.

Daily, except Saturday, at 10.

MR. DANIELS

SS2. Studies in the Romantic Poets. The currents of romanticism, as evident especially in Wordsworth and Coleridge.
Daily, except Saturday, at 9.

MR. DANIELS

SS5. Dramatics. The course is designed primarily to give training in dramatic expression. Further, it takes into consideration the allied arts of the theatre; the function of stage settings;

the procedure in mounting a play; the evolution of the design through sketches, diagrams, colored plates, and miniature models, research in period design and costume as applied in the theatre; properties; make-up. The student is familiarized with all the responsibilities of play production.

Daily, except Saturday, at 11.

MR. ILLINGWORTH

SS15. Fundamentals of Public Speaking. A course in the composition and delivery of speeches. Practice in impromptu speaking. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

Daily, except Saturday, at 10.

MR. ILLINGWORTH

FRENCH

SS1. Elementary French. Grammar, pronunciation through phonetic approach, oral work. Especial attention given to the development of reading ability. Text. Hacker: *A French Grammar*.

Daily, except Saturday, at 10.

MR. ATWOOD

SS2. Reading of French Prose. The object of the course is to develop the power of rapid and accurate reading of modern French. Collateral reading of modern literature and reports from the more advanced students. This course must, of necessity, be flexible and an endeavor will be made to adapt it, so far as possible, to the needs of the individual students. Texts. Clavel, *Terres et Gens de France*; Buffum, *Contes Français*, or texts of similar nature.

Daily, except Saturday, at 11.

MR. ATWOOD

Degrees, diplomas or other certificates of liberal or professional training with sources and dates

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Tentative List of Summer School Courses which Applicant desires to enter.

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(Describe by Subject and Number, e.g., Geography 101)

If you are not a graduate of a college, technical, normal, or secondary school, not a college student, and not a teacher, send a letter with this application stating your qualifications for the work which you desire to do.

GERMAN

SS1. Elementary German. Rapid survey of grammar essentials; writing of easy sentences to fix form and the principles of syntax in the mind; reading of simple prose. A course designed especially for mature students who can give a large share of their time during the session to this work.

Daily, except Saturday, at 10.

MRS. HODGE

SS2. Grammar Review and Reading of German Prose. This course is designed to meet the needs of students who have some knowledge of German and who wish to increase their ability to read with accuracy and ease. The reading will be accompanied by a systematic review of the essentials of grammar, with much oral and some written practice. The works read will depend on the ability and needs of the members of the class. As far as possible the work will be modified and adapted to the individual needs of each student.

Daily, except Saturday, at 9.

MRS. HODGE

NOTE: If there should be a sufficient demand, a third more advanced course may be offered for students who have attained some proficiency in the language; a course conducted entirely in German and covering the following points: an analytical study of the language, free composition and essays, oral themes, telling stories, dramatics and folk-songs, and free discussion of the subject matter read in class or at home.

ENROLLMENT FORM

Please do not write above this line

To the Registrar of Clark University:

I wish to be enrolled as a student in the Summer School for 1927, and enclose with this the Registration Fee of two dollars.

Name

Address

Date

Occupation during the past academic year

If teaching or studying, where?

Clark University
Final Assembly of the 1927 Summer School
August 11, 8:30 p. m.

I. A CARNIVAL PLAYLET

Abstract From

Twelfth Night; or, What You Will

Sir Toby Belch, uncle to Olivia	ROLAND E. GERVAIS
Sir Andrew Aquecheek	ARLINGTON B. CRUM
Malvolio, Olivia's steward	ROBERT D. ALLISON
Feste, a clown	FLORENCE E. HOWE
Olivia, a rich countess	ALICE S. BROWN
Maria, Olivia's gentlewoman ..	MARGARET M. McGOVERN

Setting: The Garden of the Lady Olivia in a city of Illyria

Act I	Early evening
Act II	Night
Act III	The next afternoon
Act IV	The next evening
Act V	The next day

An intermission of five minutes between act III and IV

PRODUCTION STAFF

Manager	ARLINGTON B. CRUM
Book holder	DOROTHY G. KENDALL
Properties	ROBERT D. ALLISON
Director	ROBERT S. ILLINGWORTH

Costumes from Hooker-Howe, Haverhill, Mass.

II. CONFERRING OF DEGREES

DR. CHARLES H. THURBER
President, Board of Trustees

MASTER OF ARTS
Marion Belle Forsythe
Isabelle Kingsbury Hart

BACHELOR OF ARTS
Ralph Leslie Small

BACHELOR OF EDUCATION
Mildred Elizabeth Christenson
Marion Belle Forsythe
Maude Allison Hobson
Margaret Elizabeth Maher
Theresa Frances McQueeny
Delia Gertrude O'Connor
Arthur Marthmore Shrager
Anne Elizabeth Tausch

Clark University Bulletin

Sub-Freshman Number



Published in the interest of Old Friends and New Acquaintances

Worcester, Massachusetts

1927



LARK UNIVERSITY offers, at moderate expense, a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit in addition to Physical Training, with a rank above the bottom quarter of the class in three-fifths of the work.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years.

The University's Summer School allows other ambitious students to obtain extra credits sufficient to earn the degree in three and one-half years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00, including a tax of \$10.00 in support of student activities.

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.



Officers of Administration and Instruction

- WALLACE WALTER ATWOOD, Ph.D. (Chicago)
President
Professor of Physical and Regional Geography and Director of the
Graduate School of Geography
- HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)
Dean of the College and Professor of Geology
- LOUIS N. WILSON, Litt. D. (Tufts)
Librarian
- BENJAMIN SHORES MERIGOLD, Ph.D. (Harvard)
Professor of Chemistry
- FRANK BLAIR WILLIAMS, Ph.D. (Clark)
Professor of Mathematics
- GEORGE HUBBARD BLAKESLEE, Ph.D., L.H.D. (Harvard)
Professor of History and International Relations
- CHARLES BREWSTER RANDOLPH, Ph.D. (Harvard)
Professor of German
- PHILIP HUDSON CHURCHMAN, Ph.D. (Harvard)
Professor of Romance Languages
- HAVEN DARLING BRACKETT, Ph.D. (Harvard)
Professor of Greek and Latin Languages and Literature
- LEROY ALLSTON AMES, A.M. (Harvard)
Professor of English Literature
- LORING HOLMES DODD, Ph.D. (Yale)
Professor of Rhetoric
- ROBERT HUTCHINS GODDARD, Ph.D. (Clark)
Professor of Physics
- ELLEN CHURCHILL SEMPLE, A.M., LL.D. (Vassar)
Professor of Anthropogeography
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Professor of Economics and Sociology
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Professor of Psychology
- WILLIAM HARDER COLE, Ph.D. (Harvard)
Professor of Biology
- WILLIAM HOMER WARREN, Ph.D. (Harvard)
Professor of Organic Chemistry
- WALTER S. HUNTER, Ph.D. (Chicago)
G. Stanley Hall Professor of Genetic Psychology

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- DUDLEY WILSON WILLARD, Ph.D. (Washington)
Assistant Professor of Sociology
- DAVID POTTER, M.Sc. (Mass. Agri. College)
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- GEORGE ELISHA BAKER, A.M. (Harvard)
Instructor in English
- LEO JULIUS MEYER, A.M. (Wesleyan)
Instructor in German
- LEWIS MAXWELL SLEEPER, A.M. (Clark)
Instructor in Physics
- IRENE JEAN CURNOW, Ph.D. (London)
Special Lecturer in Geography
- S. VAN VALKENBURG, D.Sc.
Special Lecturer in Geography
- GUY HARVEY BURNHAM, A.M. (Clark)
Cartographer, Graduate School of Geography
- ERNEST RAYMOND WHITMAN
Director of Physical Education
- RALPH WARNER ELLIS, M.D. (Harvard)
Medical Director
- DEAN WINSLOW HANSCOM
Director of Glee Club
- ARTHUR J. DANN
Director of Orchestra



UNION STATION

Location



LARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, being the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Worcester State Normal School, and Worcester Academy. The Worcester Art Gallery, with its large endowment, is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, is modern and well equipped. The situation of the city is such that opportunities in drama and in music are offered superior to those available in most cities of similar size.

Historical

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able

staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter is still, however, ordinarily referred to as Clark College.

The Campus

The campus consists of a plot of about seven acres a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is only a few minutes walk from the campus. The ground floor is occupied by the Dining Hall, under the supervision of a trained dietitian. The dormitory accommodates fifty-one students. It is thoroughly up-to-date, heated by steam, well equipped with shower baths, and has light, airy corridors. The building is cared for by a man and wife of excellent personality who reside in it.

The University has recently purchased an additional plot of about six acres which has been developed into a first class athletic field. The old athletic field, immediately adjoining the campus, is an acre or more in extent, with tennis courts, outdoor basketball court, a six lap running track and space for field events.

Endowment, Faculty, Laboratories, and Library

Clark University is a small institution with a total enrollment of approximately 350 students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.



ENTRANCE TO ESTABROOK HALL, THE FRESHMAN DORMITORY



INNER COURT, UNIVERSITY LIBRARY

The Library deserves special mention. In this prerequisite for real university and college life Clark is almost uniquely fortunate, for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of the preceding pages. With its limited numbers Clark offers to every student



ENTRANCE TO GEOGRAPHY WING, LIBRARY BUILDING

an unusual opportunity for personal association with the Head of each Department in which he is working. *Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized.* These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

Courses of Study

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

A. Division of Science

I Mathematics, II Physics, III Chemistry, IV Biology,
V Geology

B. Division of Social Science and Psychology

VI History and International Relations, VII Economics
and Sociology, VIII Psychology and Education,
IX Geography

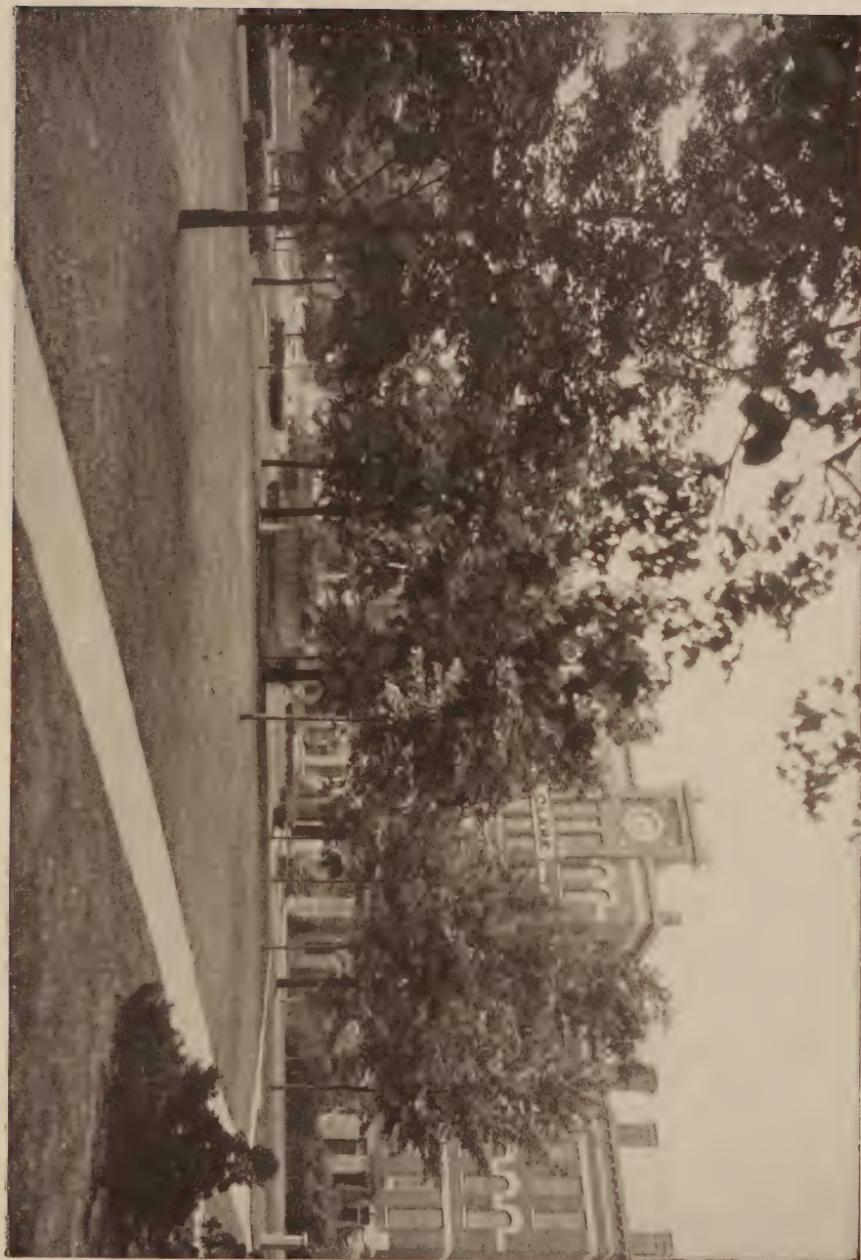
C. Division of Languages and Literature

X English, XI German, XII Romance Languages,
XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, Mathematics—three courses of varying difficulty are offered—and a course in the Division of Social Science and Psychology. This leaves a choice of one elective, or two if six courses are carried.

At the end of the freshman year a student is expected to indicate in which department he intends to *major* and to select a *minor* in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, leaving much of the last two years free for study in fields of special interest.

Clark desires the superior student to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner



(9)

the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Biology, Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education and also general undergraduate and graduate work.

Admission

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, *presentation of fifteen units of certified work*; third, evidence of good moral character. Students who present thirteen or fourteen units may be admitted on condition. These may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to the Board by about the middle of May. By special consent the September examinations furnished to the colleges by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the graduate division and to advanced undergraduate courses in some departments.

Clark is a member of the New England College Entrance Certificating Board and all New England principals certifying to Clark assume responsibility to that Board.



GLEE CLUB, 1925-1926
Participants in the New England Intercollegiate Singing Contest at Boston

Graduation

To obtain the degree of Bachelor of Arts in regular course a student is required to complete in a satisfactory manner a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of his class in at least three-fifths of his work.

A feature of Clark is the encouragement offered to students of ability to finish the course in three years or three years and one summer school. In furtherance of this a freshman is allowed to elect six courses as long as he averages in the upper half of his class and may indeed petition to be allowed to carry additional work if he retains this average. A system of credit bonuses encourages high grade work.

Tuition, Room, and Board

Owing to the express desire of the founder that his generous

endowment should be used to make a college education available to deserving young men, the expense of tuition has been kept at the relatively low figure of \$100.00 a semester. This includes the annual student tax of \$10.00 for the support of various student activities, chiefly athletics and debating.

Other expenses are a \$5.00 matriculation fee, an additional tax of \$4.50 which the students have imposed upon themselves, and laboratory fees of \$2.50 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board is \$7.00 per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$10.00 is required to cover possible damages. This is returned at the end of the year if everything is left in good order. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the opposite page shows the arrangement of the rooms.

Scholarships, Student Aid, and Self-help

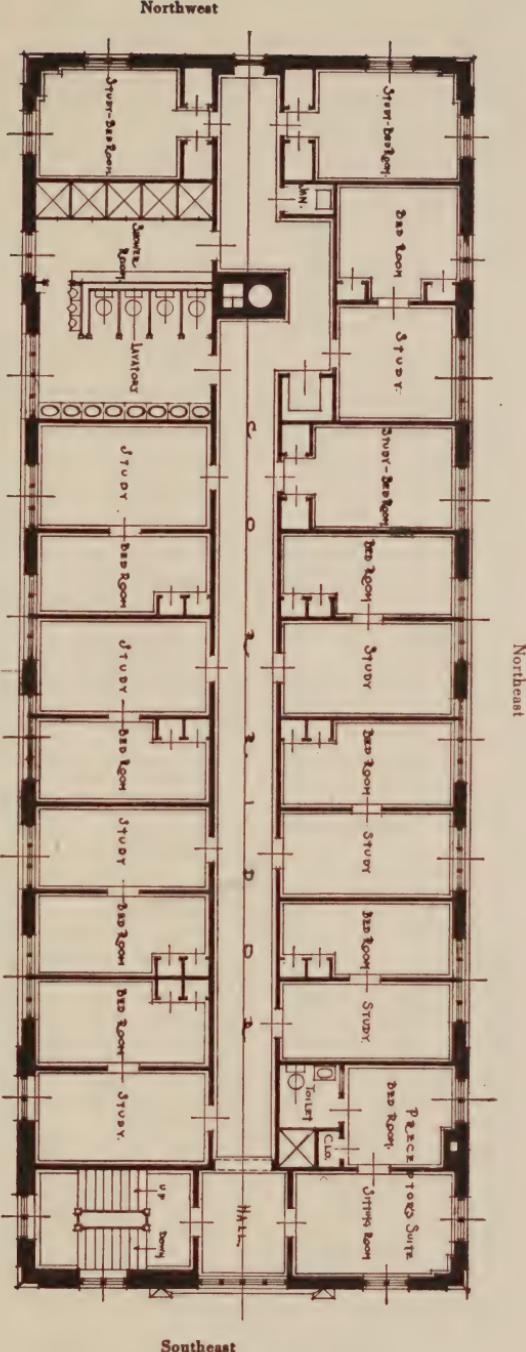
No attempt will be made here to describe the numerous fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshmen scholarships, eight are reserved for candidates from the Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be applied for by any man averaging in the upper quarter of his class for the preceding year.

THIRD FLOOR PLAN
Scale 1" = 10' Foot

ESTABROOK HALL

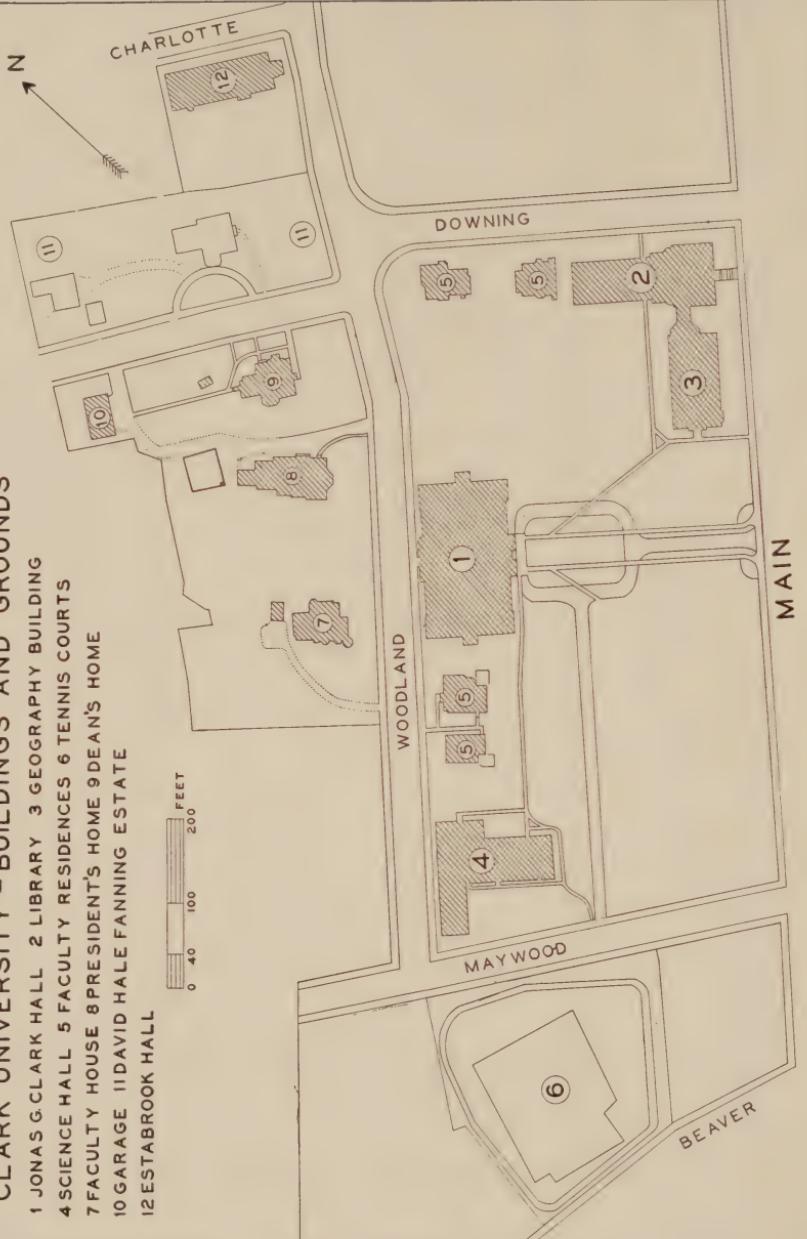
The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath. **Woodland Street** extends along the southeast side of the building and Charlotte Street along the northeast side.



CLARK UNIVERSITY - BUILDINGS AND GROUNDS

- 1 JONAS G. CLARK HALL
- 2 LIBRARY
- 3 GEOGRAPHY BUILDING
- 4 SCIENCE HALL
- 5 FACULTY RESIDENCES
- 6 TENNIS COURTS
- 7 FACULTY HOUSE
- 8 PRESIDENT'S HOME
- 9 DEAN'S HOME
- 10 GARAGE
- 11 DAVID HALE FANNING ESTATE
- 12 ESTABROOK HALL

0 40 100 200 FEET



BUILDINGS AND GROUNDS

This plan does not show the new seven acre athletic field which is a few minutes walk down Beaver Street from the tennis courts.

Sufficient loan funds are available to allow the continuance in college of deserving students. Spare time employment can usually be found. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$300.00 should be at the disposal of any man beginning a college course.

College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by the proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curricular activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in the gymnasium, and three formal "Proms." College suppers are occasionally held in Estabrook Hall, at which faculty and students meet in a social way. The College supports a Glee Club and Orchestra, trained by professional Musical Directors, and a very successful Dramatic Association, coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the *Clark Monthly*, a magazine which gives opportunity for the publication of their literary productions and serves also as a forum for the expression of college opinion. There are four local and two national Greek letter fraternities, besides several special fraternities and organizations. The Science Club has recently been receiving enthusiastic support, while a sociological fraternity offers opportunity for the discussion of present day problems.

Clark has participated in intercollegiate athletics since 1919 and has been particularly successful in basketball. Rugby football is not played, but rapid advance has been made in soccer under competent coaching. The College also provides a baseball coach, and the new athletic field is expected to do much for that sport.



CAMPUS SCENE

Words by
E. Leonard '25'

SONS of CLARK

Music by
Chas. Metcalf '22
Arr by D.W.H.

Tenor 1
Ten 2
Melody Bass 1
Bass 2

1. Down in New Eng----land Down in old Wor-cesser town,
2. We love her Cam----pus We love her vine clad walls,

This block contains the first two stanzas of the lyrics. It features four staves: Tenor 1 (top), Tenor 2 (second from top), Melody Bass 1 (third from top), and Bass 2 (bottom). The music is in common time (indicated by '4') and includes various note values like quarter, eighth, and sixteenth notes. The vocal parts are primarily in soprano and bass ranges.

Where songs of com-rades gay All sor-rows drown-
We love each hap-py hour spent in her halls

This block contains the third stanza of the lyrics. It follows the same four-stave format as the previous block, continuing the musical setting established earlier.

Down where sweet breez-es blow Where flow'rs of friend-ship grow,
How deep that love can flow How sweet those mem'ries grow;

This block contains the fourth stanza of the lyrics. The musical style remains consistent with the previous stanzas, featuring the same four voices and instrumentation.

There's where I long to go There I'll find Clark
No one can ever --- know, Save sons of Clark

This block contains the fifth and final stanza of the lyrics. The music concludes with the same four-stave arrangement, providing a fitting end to the piece.

**For Further Information
Address**

***The Registrar, Clark University
Worcester, Massachusetts***

Published by the University in January, February, March, April, May, June, October, November and December
Number 58 Price 25c a year January, 1927

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Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in section 103,
Act of October 3, 1917, authorized January 24, 1921.

Registration Copy

Clark University Bulletin

Catalogue Number

1926-1927



Worcester, Massachusetts
February 1927

Clark University Bulletin

NUMBER 54

FEBRUARY 1927

Catalogue Number

The Catalogue is a record for the current academic year, 1926-27. Such announcements for the year 1927-28 as can be made at the time of publication are included.

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Historical Note

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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1926

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CALENDAR

The academic year begins on the fourth Thursday in September. Commencement Day is the thirty-eighth Monday following (the second or third Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1926

Sept. 23.	Thursday	Academic year began. Registration day.
Oct. 12.	Tuesday	Columbus Day. A holiday.
Nov. 24.	Wednesday	Thanksgiving recess began at 1 P. M.
Nov. 29.	Monday	Thanksgiving recess ended at 8 A. M.
Dec. 18.	Saturday	Christmas recess began at 1 P. M.

1927

Jan. 3.	Monday	Christmas recess ended at 8 A. M.
Jan. 29.	Saturday	End of first semester.
Jan. 31.	Monday	Second semester began.
Feb. 1.	Tuesday	Founder's Day. Not a holiday.
Feb. 22.	Tuesday	Washington's Birthday. A holiday.
Mar. 26.	Saturday	Mid-semester reports.
Apr. 16.	Saturday	Spring recess begins at 1 P. M.
Apr. 25.	Monday	Spring recess ends at 8 A. M.
May 7.	Saturday	Sub-Freshman Day.
May 14.	Saturday	Theses for degree of Master of Arts are due
May 30.	Monday	Memorial Day. A holiday.
May 31.	Tuesday	Semester examinations begin at 2 P. M.
June 4.	Saturday	Dissertations and theses for graduate degrees are due at the office of the Secretary of the Graduate Board.
June 9.	Thursday	Last Day of semester examinations.
June 13.	Monday	Commencement Day.
July 5.	Tuesday	Summer School opens. Registration day.
July 9.	Saturday	Last day for payment of Summer School tuition.
Aug. 11.	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug. 12.	Friday	Summer School closes.
Sept. 22.	Thursday	Academic year begins. Registration day.
Oct. 1.	Saturday	Last day for payment of term bills. Last day for changes in undergraduate programs.
Oct. 12.	Wednesday	Columbus Day. A holiday.
Oct. 29.	Saturday	Last day for receiving applications for admis- sion to candidacy for the degree of Doctor of Philosophy in June 1927.

Nov. 19.	Saturday	Mid-semester reports.
Nov. 23.	Wednesday	Thanksgiving recess begins at 1 P. M.
Nov. 28.	Monday	Thanksgiving recess ends at 8 A. M.
Dec. 15.	Thursday	Last day for receiving applications for the income of special funds for graduate students.
Dec. 17.	Saturday	Christmas recess begins at 1 P. M.
1928	Tuesday Wednesday Jan. 3.	Christmas recess ends at 8 A. M.
Jan. 19.	Thursday	<u>Semester examinations begin at 2 P. M. Registration day for second semester.</u>
Jan. 28.	Saturday	End of first semester. Last day for receiving applications for undergraduate scholarships for the second semester.
Jan. 30.	Monday	Second semester begins.
Feb. 1.	Wednesday	Founder's Day. Not a holiday.
Feb. 4.	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June 1927.
Feb. 8.	Wednesday	Last day for payment of term bills.
Feb. 22.	Wednesday	Washington's Birthday. A holiday.
Mar. 1.	Thursday	Last day for receiving applications for graduate scholarships and fellowships for 1927-28.
Mar. 24.	Saturday	Mid-semester reports.
Apr. 14.	Saturday	Spring recess begins at 1 P. M.
Apr. 23.	Monday	Spring recess ends at 8 A. M.
May 5.	Saturday	Sub-Freshman Day.
May 12.	Saturday	Theses for degree of Master of Arts are due.
May 30.	Wednesday	Memorial Day. A holiday.
May 31.	Thursday	Semester examinations begin at 2 P. M.
June 2.	Saturday	Dissertations and theses for graduate degrees are due at the office of the Secretary of the Graduate Board.
June 7.	Thursday	Last day of semester examinations.
June 11.	Monday	Commencement Day.

BOARD OF TRUSTEES

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ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
ALFRED AIKEN (1919)	Worcester, Mass.
GEORGE H. MIRICK (1920), Secretary	Worcester, Mass.
FREDERICK B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD
Librarian and Curator of the Art Collection	L. N. WILSON
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of the Home Study Department	D. C. RIDGLEY
Registrar and Secretary of the Graduate Board	C. E. MELVILLE
Bursar	FLORENCE CHANDLER

University Staff

For Summer School Faculty see page 75

- WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.
President, 1920-. Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, *Economic Geography*.
B.S., University of Chicago, 1897; Fellow, Assistant, and Associate, 1899-1903; Ph.D., 1903; Instructor and Assistant Professor of Physiography and General Geology, 1903-10; Associate Professor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. Instructor, Chicago Institute, 1900-01. Professor of Physiography, Harvard University, 1913-20. Geologist, U. S. Geological Survey. Fellow, American Academy of Arts and Sciences. Member, Geological Society of America, American Antiquarian Society, Chicago Academy of Sciences and the Association of American Geographers. President, National Council of Geography Teachers, 1920-21.
- WILLIAM EDWARD STORY, PH.D. 17 Hammond St.
Professor of Mathematics, 1889-1921. Professor Emeritus.
- LOUIS N. WILSON, LITT.D. 11 Shirley St.
Librarian, 1889-. Custodian of the Art Collection.
Litt.D., Tufts College, 1905.
- HENRY TABER, PH.D. 2 Pleasant Pl.
Professor of Mathematics, 1903-21. Professor Emeritus.
- WILLIAM HENRY BURNHAM, PH.D. 20 John St.
Professor of Education and School Hygiene, 1906-26.
Professor Emeritus.
- BENJAMIN SHORES MERIGOLD, PH.D. 166 Woodland St.
Professor of Chemistry. Director of the Chemical Laboratories.
Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920-. Assistant Professor of Chemistry, Clark College, 1903-08; Professor, 1908-20.
A.B., Harvard University, 1896; Assistant in Chemistry, 1896-1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester Polytechnic Institute, 1900-03.

FRANK BLAIR WILLIAMS, PH.D.

24 Loudon St.

Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900;
Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08;
Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow,
1892-93. Engineering Work, United States Government Surveys,
1890-92 and 1894; U. S. Asst. Engineer, 1895-97. Assistant Professor
of Engineering, Union College, 1900-04; Professor of Engineering
Mathematics, 1904-07.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.

Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911-.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09;
Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Student, Johns
Hopkins University, 1893-94. Graduate Student, Harvard University,
1898-1901; A.M., 1900; Parker Fellow, 1901-02; Ph.D., 1903.
Universities of Berlin, Leipzig, and Oxford, 1901-03. Member of
the Commission of Inquiry to prepare data for the United States
Delegation to the Peace Conference, 1918-19. Member of the
Council of the American Antiquarian Society. Member of Technical
Staff, American Delegation, Conference on Limitation of
Armament, Washington, 1921-22.

CHARLES BREWSTER RANDOLPH, PH.D.

10 Otsego Rd.

Professor of German.

Professor of German, 1920-; Director of the Summer School,
1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek
and Latin, 1904-05; Assistant Professor, 1905-10; Professor of
Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University,
1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek
and Latin, University of Illinois Preparatory School, 1897-1900.
Student, University of Halle, 1900-01.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.

Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.

Professor of the Greek and Latin Languages and Literatures, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1898-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

LEROY ALLSTON AMES, A.M. 166 Woodland St.

Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Greenough School, Boston, Mass., 1906-07.

*LORING HOLMES DODD, PH.D. 88 Sagamore Rd.

Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

*Absent on leave, second semester, 1926-27.

ROBERT HUTCHINGS GODDARD, PH.D.

17 Gates Lane

Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A.M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15, 1919-20; Instructor in Physics, 1916-18; Professor, 1920.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S. Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

HOMER PAYSON LITTLE, PH.D.

156 Woodland St.

Professor of Geology and Dean of the College 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

*ELLEN CHURCHILL SEMPLE, A.M., LL.D.

941 Main St.

Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923-.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student, Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1906-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

SAMUEL J. BRANDENBURG, PH.D.

173 Woodland St.

Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

*Absent on leave, second semester, 1926-27.

*ALFRED LEWIS PINNEO DENNIS, PH.D. 769 Main St.

Professor of Modern History.

Acting Professor of International Relations, 1922-23 Feb.-June; Professor of Modern History.

A.B., Princeton, 1896. Student, Columbia, Heidelberg, and Harvard Universities, 1896-1901. Ph.D., Columbia University, 1901. Instructor and Professor of History and Political Science, Bowdoin College, 1901-04. Associate Professor of History, University of Chicago, 1904-05. Lecturer in History, Harvard University, 1905-06. Professor of History, University of Wisconsin, 1906-20.

Captain, Military Intelligence Division, General Staff, 1918-19. Assistant Military Attaché, American Embassy, London, reporting to Peace Conference, Paris, 1919. Awarded British Military Cross.

CARL MURCHISON, PH.D. 11 Downing St.

Professor of Psychology, 1923-. Director of the Psychological Laboratories. Editor, *The Pedagogical Seminary And Journal of Genetic Psychology*. Editor *Genetic Psychology Monographs*.

A.B., Wake Forest College, 1909. Rumrill Fellow, Harvard University, 1909-10. Student, Rochester Theological Seminary, 1910-13; Student, Yale University, 1914-(Jan.)16. Assistant Professor of Psychology, Miami University, 1916-19; on leave 1917-19, 1922-23; Associate Professor, 1919-23. Instructor, Army School for Military Psychology, Camp Greenleaf, Georgia, 1918. Psychological Examiner and Camp Morale Officer, Camp Sherman, Ohio; Assistant, 1918-19; Chief, 1919. Johnstone Scholar, Johns Hopkins University, 1922-23; Ph.D., 1923.

WILLIAM HARDER COLE, PH.D. 1 Freeland St.

Professor of Biology, 1924-.

A.B., Hamilton College, 1914; Root Fellow, 1914-15. Graduate Student, Harvard University, 1914-16; A. M., 1916; Austin Teaching Fellow, 1920-21; Ph.D., 1921. Assistant in Zoology, Radcliffe College, 1915-16. Instructor in Zoology, Pennsylvania State College, 1916-20; on leave, 1917-19. Professor of Zoology, Rutgers College, Summer Session, 1921-23. Professor of Biology, Wake Forest College, 1921-24.

*Absent on leave, second semester, 1926-27.

WALTER SAMUEL HUNTER, PH.D. 171 Woodland St.

G. Stanley Hall Professor of Genetic Psychology, 1925-.
Editor, *Psychological Abstracts*, *Psychological Index*,
Comparative Psychology Monographs.

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Tulane University, Summer, 1918; State University of Iowa, Summer, 1920; University of Chicago, Summer, 1923; University of California, Southern Branch, Summer, 1926; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918.

WILLIAM HOMER WARREN, PH.D. 166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb.)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

*OLIVER EDWIN BAKER, PH.D. 166 Woodland St.

Professor of Agricultural Geography.

Professorial Lecturer in Agricultural Geography, second semester, 1922-23; Acting Professor of Agricultural Geography, 1923-25; Professor, 1925-.

B.Sc., Heidelberg (Ohio) College, 1903; M.S., 1904, A.M., Columbia University, 1905. Student in Forestry, Yale University, 1907-08. Student in Agriculture, University of Wisconsin, 1908-10; Assistant, Wisconsin Agricultural Experimental Station, 1910-12. Agricultural Economist, Bureau of Agricultural Economics, U. S. Department of Agriculture, 1912-27. Ph. D., University of Wisconsin, 1921.

*In residence second semester only.

CHARLES FRANKLIN BROOKS, PH.D. 209 Lovell St.

Professor of Meteorology and Climatology. Associate Professor, 1921-26; Professor, 1926-.

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meteorology and Physical Geography, 1913-14; Ph.D., 1914. Assistant and Collaborator in Farm Management, United States Department of Agriculture, 1914-18. Instructor in Geography, Yale University, 1915-18. Instructor in Meteorology, United States Signal Service, 1918. Meteorologist, United States Weather Bureau, 1918-21. Secretary (1919-) and Treasurer (1921-23), American Meteorological Society. Fellow, Royal Meteorological Society. Member, Association of American Geographers.

*CAREY EYSTER MELVILLE, A.B. 16 Isabella St.

Associate Professor of Mathematics. Registrar. Secretary of the Graduate Board.

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920-; University Registrar and Secretary of the Graduate Board, 1922-.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, Johns Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

**DOUGLAS CLAY RIDGLEY, PH.D. 166 Woodland St.

Associate Professor of Geography. Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Associate Professor, 1924-; Ph.D., 1925.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-1922; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922.

*Absent on leave, second semester, 1926-27.

**Absent on leave, to May, 1927.

JOHN PAUL NAFE, PH.D.

1 Freeland St.

Associate Professor of Psychology.

Assistant Professor of Psychology, 1924-25; Associate Professor. 1925.

A.B., University of Colorado, 1911. Assistant in Psychology, Cornell University, 1921-22; Instructor, 1922-24; Ph.D., 1924.

WALTER ELMER EKBLAW, PH.D. Box 431, No. Grafton, Mass.

Associate Professor of Geography. Managing Editor, *Economic Geography*.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

CLARENCE FIELDEN JONES, PH.D.

193 Lovell St.

Associate Professor of Economic Geography. Associate Editor, *Economic Geography*.

Assistant Professor, 1923-26; Associate Professor, 1926-;

B.S., University of Chicago, 1917; Assistant and Graduate Student, Department of Geography, 1919-23; Ph.D., 1923. Head of Department of Geography, State Normal School, St. Cloud, Minn., 1917-18. Instructor in Geography, Illinois State Normal University, Summer Session, 1920. Visiting Professor in Geography, Iowa State University, Summer Sessions, 1924 and 1925. Lecturer in Geography, Western Illinois State Teachers College, Summer Session, 1924. Member Association of American Geographers.

VERNON AUGUSTUS JONES, PH.D.

114 Woodland St.

Associate Professor of Educational Psychology, 1926-.

Principal of High School, 1919. A.B., and A.M., University of Virginia 1920; Teacher of Educational Psychology, Summer term, 1924; Principal of Schools, 1920-23; A.M., Columbia University 1924; Associate in Education, Teachers College, 1925-26; Ph.D., 1926. Director of Research, Public Schools, Richmond, Virginia, 1924-25.

WILLIAM LEONARD LANGER, PH.D. 556 Chandler St.

Associate Professor of European History. Assistant Professor, 1923-26; Associate Professor, 1926-.

A.B., Harvard College, 1915; Graduate Student, 1919-23; Assistant in History, 1919-21; A.M., 1920; Bayard Cutting Travelling Fellow, 1921-22; Instructor in History, 1922-23; Ph.D., 1923. Instructor in Modern Languages, Worcester Academy, 1915-17. Graduate Student, Clark University, 1917. Student, University of Vienna, 1921-22. Lecturer in European History, Harvard University, 1926-27.

JAMES BLAINE HEDGES, PH.D. 25 Delawanda Dr.

Associate Professor of American History.

Assistant Professor, 1924-26; Associate Professor, 1926-.

A.B., University of Missouri, 1915; A.M., 1916. Fellow in History, Harvard University, 1916-17; Austin Teaching Fellow, 1919-20, 1922-23; Ph.D., 1924. Instructor in History, University of Oklahoma, 1920-21. Assistant Professor of History, Mills College, 1921-22. Secretary and Archivist, Harvard University Commission on Western History, 1923-24.

ROLLAND RYTHON SMITH, ED.M. 54 Longfellow Rd.

Assistant Professor of Mathematics and Education, 1926 (Feb.)-.

A.B., Harvard University, 1915; Assistant in Mathematics, 1913-15; Ed.M., 1927 (Feb.). Instructor in Mathematics, Central High School, Springfield, Mass., 1915-21. Instructor in Mathematics, Classical High School, Newtonville, Mass., 1921-26. Lecturer in Education, Boston University, 1923.

JAMES ACKLEY MAXWELL, PH.D. 1 Freeland St.

Assistant Professor of Economics.

Instructor in Economics, 1924-26; Assistant Professor, 1926-.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.).

LELAND LEAVITT ATWOOD, A. M. 68 Mann St.

Assistant Professor of Romance Languages, 1926-.

A. B., Clark College, 1916; Instructor, Summer Session, 1924; Assistant Professor, 1926-.

Instructor in Romance Languages, Cornell University, 1917-24; (1917-November-1919 in military service) A.M., 1922. Student, University of Paris, March-July, 1919. Instructor in Romance Languages, North Carolina College for Women, 1924-25; Assistant Professor, 1925-26.

*Ph.D.,
Cornell
Univ.
June 19*

JESSE LUNT BULLOCK, A.B. 22 Boynton St.

Assistant Professor of Chemistry, 1926-.

A.B., Harvard 1914; Graduate Student and Assistant in Chemistry, 1914-15. Industrial Research, The Calco Chemical Company and The Diamond Match Company, 1915-22. Chief Chemist, The Granton Chemical Company, 1922-24. Consulting Chemist, 1924-26.

ARTHUR FLETCHER LUCAS, PH.D. 57 Lovell St.

Assistant Professor of Economics and Sociology, 1926-.

A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925.

DUDLEY WILSON WILLARD, PH.D. 4 Clement St.

Assistant Professor of Sociology, 1926-.

A.B., University of Washington, 1917; A.M., 1922; Arthur A. Denney Fellow in Education, 1922-24; Ph.D., 1926. Associate in Research, Lincoln School of Teachers College, Columbia University, 1924-25; Graduate Student, Columbia University, 1925-26.

*PERCY MARTIN ROOPE, A. M.

Instructor in Physics.

Instructor in Physics, 1921-; A.M., 1924; Honorary Fellow 1924-25; Fellow 1925-26.

A.B., Clark College, 1920.

Instructor in Physics, Kalamazoo College, 1920-21.

DAVID POTTER, M.Sc. 941 Main St.

Instructor in Biology, 1924-27. Assistant Professor, beginning Sept., 1927.

B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923. Instructor in Biology, Albion College, 1923-24.

GEORGE ELISHA BAKER, A.M. Estabrook Hall

Instructor in English. Assistant Professor, beginning Sept., 1927. Proctor, Estabrook Hall.

Assistant in English, 1924 (Feb.-June); Instructor 1925-27.

A.B., Clark College, 1922.

Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925.

*Absent on leave, 1926-27.

- ALBERT LA FLEUR, A.M. 166 Woodland St.
 Instructor in Geography, 1926-27 (Sept.-Jan.).
 A.B., Clark University, 1922; A.M., 1923; Assistant Professor
 of Geography, Ohio University, 1923-26. Visiting Assistant Pro-
 fessor of Geography, Northwestern University, Summer, 1926.
- LEO JULIUS MEYER, A.M. 166 Woodland St.
 Instructor in German.
 A.B., Wesleyan University, 1921; A.M., 1923.
- LEWIS MAXWELL SLEEPER, A.M. 15 Birch St.
 Instructor in Physics.
 A.B., Clark University, 1925; A.M., 1926; Instructor, 1926-.
- J. W. BRIDGES, PH.D., Special Lecturer in Abnormal Psychology,
 1926-27 (Sept.-Nov.)
- CURTIS F. MARBUT, LL.D.
 Special Lecturer on Soils, 1923-.
- IRENE J. CURNOW, PH.D.,
 Special Lecturer in Cartography, 1926-27.
- S. VAN VALKENBURG, D.Sc.
 Special Lecturer in Geography, (second semester,
 1926-27).
- F. A. BRUNO DIETRICH, PH.D.
 Special Lecturer in Geography. (Six weeks, second
 semester, 1926-27.)
- GUY H. BURNHAM, A.M. (Clark) 19 Bowdoin St.
 Cartographer, Graduate School of Geography.
- ERNEST RAYMOND WHITMAN 48 Downing St.
 Director of Physical Education
- RALPH WARNER ELLIS, M.D., (Harvard) 574 Main St.
 Medical Director.
- FLORENCE CHANDLER 18 Downing St.
 Bursar.
- DEAN W. HANSCOM, A.B. (Harvard) Auburndale, Mass.
 Director of the Glee Club.
- ARTHUR J. DANN 27 Circuit Ave.
 Director of the Orchestra.

EUGENE C. BELKNAP

9½ Hancock St.

Curator, Department of Chemistry.

JOHN W. BOARDMAN

15 Shirley St.

Superintendent of Buildings and Grounds.

STUDENT ASSISTANTS

CLYDE F. BENNER, A.B., Physics.

HERVEY F. BOWDEN, A.B., History and International Relations.

GUSTAF H. CARLSON, A.B., Chemistry.

DAVID H. Y. CHENG, M.S., Economics and Sociology.

GEORGE A. DAWSON, A.B., Chemistry.

P. HARRY EWERT, A.M., Psychology.

IVER W. FALLSTROM, A.B., Chemistry.

EDWIN J. FOSCUE, M.S., Geography.

FRANK A. GELDARD, A.M., Psychology.

RALPH W. GILBERT, A.M., Psychology.

CHARLES GOOZE, A.B., Geography.

CLARENCE E. KOEPPPE, B.S., Geography.

GEORGE V. KROPP, Physical Education.

CHARILAOS G. LAGOUDAKIS, A.M., History and International Relations.

JOHN R. LIGGETT, A.M., Psychology.

BERT J. LOEWENBERG, A.B., History and International Relations.

ROB ROY MACGREGOR, A.M., History and International Relations.

ROBERT W. NAFE, A.M., Psychology.

JULIA M. SHIPMAN, A.M., Geography.

ROBERT STONE, B.P.E., Physical Education.

J. HENRY WEBER, A.B., Geography.

Governing Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph

THE UNIVERSITY SENATE

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President Wallace W. Atwood, *ex officio*

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Samuel J. Brandenburg	Benjamin S. Merigold
Robert H. Goddard	Carl Murchison
Walter S. Hunter	Douglas C. Ridgley

Louis N. Wilson

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control, independent of the Faculty, of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

Oliver E. Baker	Walter S. Hunter
George H. Blakeslee	Benjamin S. Merigold
Samuel J. Brandenburg	Carl Murchison
Charles F. Brooks	William H. Warren
William H. Cole	James B. Hedges
Alfred L. P. Dennis	William L. Langer
Robert H. Goddard	Clarence F. Jones

Secretary of the Graduate Board, Carey E. Melville

THE COLLEGIATE BOARD

The Collegiate Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President, Wallace W. Atwood	}	ex officio
Collegiate Dean, Homer P. Little		
Registrar, Carey E. Melville		
Leroy A. Ames	Philip H. Churchman	
George E. Baker	James A. Maxwell	
Haven D. Brackett	John P. Nafe	
Benjamin S. Merigold, <i>Secretary</i>		

THE COMMITTEE ON THE DEGREE OF BACHELOR OF EDUCATION

The Committee exercises general supervision, subject to the approval of the Faculty, over the degree of Bachelor of Education.

President, Wallace W. Atwood, <i>ex officio</i>
Registrar, Carey E. Melville, <i>Chairman</i>
Collegiate Dean, Homer P. Little

Director of the Summer School and of the Home Study Department, Douglas C. Ridgley.

THE COMMITTEE ON THE SUMMER SCHOOL

President, Wallace W. Atwood, <i>ex officio</i>	
Director of the Summer School, Douglas C. Ridgley	
George H. Blakeslee	Carey E. Melville

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually by the Faculty to advise the President regarding the personnel and the organization of departments. No election for 1927-28.

COMMITTEE ON EXTENSION COURSES

Philip H. Churchman	Clarence F. Jones
Homer P. Little	Rolland R. Smith

STANDING COMMITTEES OF THE
GRADUATE BOARD

The President of the University is *ex officio* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

Charles F. Brooks, *Chairman*

Carey E. Melville, *ex officio, Secretary*

George H. Blakeslee

Samuel J. Brandenburg

Carl Murchison

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines for proficiency in foreign languages candidates for the degree of Doctor of Philosophy.

Philip H. Churchman, Professor of Romance Languages

Charles B. Randolph, Professor of German

A representative of the student's major department

STANDING COMMITTEES OF THE
COLLEGIATE BOARD

The President of the University and the Collegiate Dean are *ex officio* members of all committees of the Collegiate Board.

THE COMMITTEE ON ADMISSIONS

Registrar, Carey E. Melville, *Chairman*

Haven D. Brackett

Robert H. Goddard

THE COMMITTEE ON CURRICULUM

Leroy A. Ames

Philip H. Churchman

Registrar, Carey E. Melville, *ex officio*

THE COMMITTEE ON STUDENTS' STANDING

The Registrar, and the instructors and advisers of the students under consideration.

THE COMMITTEE ON ATHLETICS

James A. Maxwell

Ernest R. Whitman

David Potter

Frank B. Williams

THE COMMITTEE ON AUTHORIZED EXCURSIONS

Charles F. Brooks

Carey E. Melville

THE COMMITTEE ON COOPERATION WITH STUDENTS

Loring H. Dodd, Charles B. Randolph, Benjamin S. Merigold

The University

LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of nearly two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located and other property opposite the campus on Woodland St., the Hadwen Arboretum on Lovell St., and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street opposite the Campus.

Jonas G. Clark Hall, completed in 1889, is a four story granite and brick building, 204 feet by 114 feet, of fire resisting construction, containing about ninety rooms.

Science Hall, completed in 1889, is constructed of brick with brick partitions throughout. It has the form of a letter L with each wing about 135 feet in length. The wing adjacent to Woodland Street, containing about twenty-eight rooms on three floors,

is occupied by the Department of Chemistry. The other wing, containing about twenty-two rooms on four floors, is occupied by the Department of Physics.

The Library Building, completed in 1903, is architecturally the most noteworthy of the University buildings. The design is a modern adaptation of the Gothic style. The exterior is of brick on a granite foundation. The interior is finished throughout in oak. The building, facing Main Street and extending back along Downing Street, is 78 feet by 168 feet and three stories in height.

The Geography Building, completed in 1910, is 56 feet wide and extends along Main Street for 111 feet. It is connected by corridors to the Library Building, which it matches in design.

Estabrook Hall, a dormitory for about fifty students, is the newest addition to the University buildings. This is an attractive brick building, 43 feet by 125 feet, and three stories in height, including the Dining Hall, built in 1908, on the ground floor. The dormitory and dining hall are both supplied with the most modern equipment throughout. The dining hall has accommodations for about two hundred.

ORGANIZATION

The University includes :

THE UNDERGRADUATE DIVISION offering a general collegiate course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography and related subjects.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

COURSES OF STUDY are offered by thirteen departments :

1. Ancient Languages and Literatures
2. Biology

3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics
11. Physics
12. Psychology
13. Romance Languages and Literatures

Announcements of the different divisions and of the different departments will be found, each under its own heading, in the following pages.

THE ACADEMIC YEAR

The academic year begins on the fourth Thursday in September, and Commencement Day is the thirty-eighth Monday following (the second or third Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are three recesses during the college year: Thanksgiving Day and the two days following; two weeks including Christmas and New Year's Day; and the week including the nineteenth of April. University exercises are suspended also on Columbus Day, Washington's Birthday, and Memorial Day, and during some of the morning hours on Founder's Day, in order to permit students to attend the commemoration exercises.

The Summer School begins on Tuesday, July 5, and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see page 38.
2. Graduate students. For requirements see page 50.
3. Special students. (a) Mature persons, not candidates for a

degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirement see pages 51 and 80.

Requests for information and for application forms should be addressed to the Registrar.

REGISTRATION

The first day of the academic year and of the summer session are devoted to the registration of programs of study. Registration for the second semester is required on the tenth day (Thursday) before the beginning of the semester.

Failure to register on the days designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to maximum of five dollars.

TUITION AND FEES

The tuition in the Undergraduate and Graduate Division is \$200* per year, payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of \$2.

Special Students and others carrying small programs are charged at the rate of \$40 for a course meeting one hour weekly through the year, and \$20 for each additional hour per week through the year.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition for special courses for teachers is \$8.00 for a course

*A candidate for a degree who entered the University in September, 1927, or earlier, and who proceeds to the degree in the normal time, will be charged at the rate of \$150 per year for the time required to earn the degree.



meeting one hour a week for one semester and \$15 for a course meeting two hours a week for one semester.

A matriculation fee of \$5 is required of all students entering Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence, without any future charge for matriculation. This fee is paid also by Students who register for the Summer School.

Laboratory fees are charged at the rate of \$2.50 each semester for graduate laboratory courses in Biology, Chemistry, Geology, Physics, and Psychology.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on application; and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

Diploma fees are charged according to the following schedule:

\$5 for the Bachelor of Arts or the Bachelor of Education diploma. These fees are due before the delivery of the diploma.

\$10 for the Master of Arts diploma.

\$25 for the Doctor of Philosophy diploma.

These fees are due when applications for admission to candidacy are filed.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge has been \$7 per week.

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan, pages 17 and 18) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. In case of voluntary or involuntary withdrawal from the College, room rent is charged to the first of the calendar month following the date of withdrawal. Each student is required to deposit \$10 before occupying a room. This deposit is returned, less any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar. A deposit of fifty cents is required from each student for a key to his room.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for Freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to Freshmen in order of application, when the application is accompanied by a deposit of \$10. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings can be secured in private houses within convenient distance at a reasonable cost.

OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city and that the total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a book store which is operated without profit in order to reduce the cost of text-books and supplies.

HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the Uni-

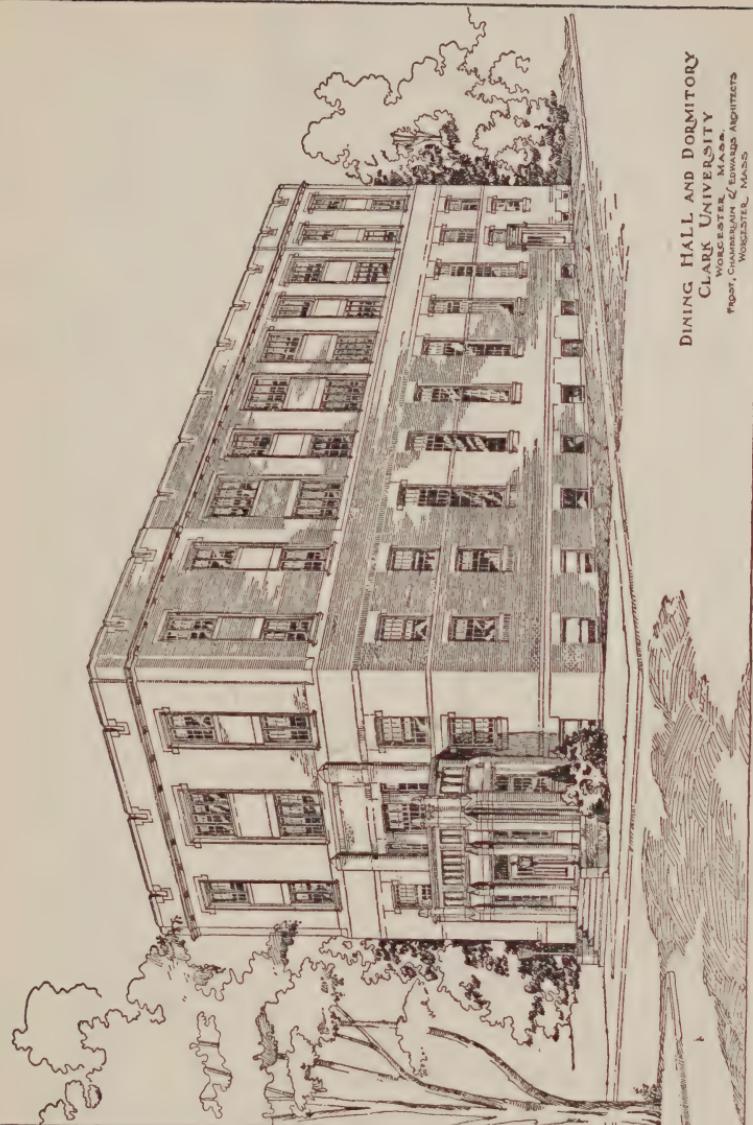
versity. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

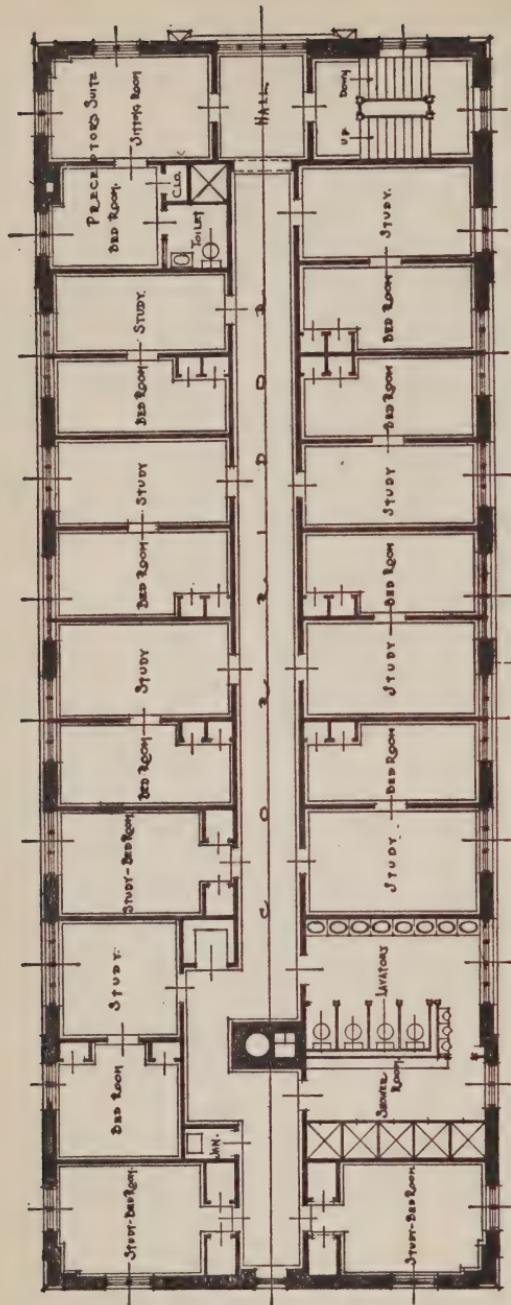
The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The larger athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.



DINING HALL AND DORMITORY
CLARK UNIVERSITY
WORCESTER, MASS.
PROF. CHAMBERLAIN & EDWARDS, ARCHITECTS
WORCESTER, MASS.



THIRD FLOOR PLAN
Scale 1" = 20 ft.

DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshmen been placed at a very modest figure, much less students. All Freshmen who are living away than rooms of similar equipment and attractiveness can be secured for in the neighborhood of from home while attending the College and who the College. A proctor lives in the building and are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms has dormitory.

The Library

LOUIS N. WILSON, *Librarian*

EDITH M. BAKER, *Assistant Librarian*

HELEN J. ELLIOT, *Cataloguer*

Assistants

HOPE M. COWLES, JESSIE W. CURRIE, JEANETTE FAVREAU

EDITH L. SAWYER, LORNA H. SHAW

Student Assistants

THORNTON L. PITCHER, GEORGE B. DYER

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing Streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publications of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 116,000 bound volumes and pamphlets, and the reading room receives over 500 journals.

The books are grouped as follows:

A	Works of General Reference	L	Biography
B	Journals	M	Anthropogeography
C	Mathematics	N	Education
CD	Mathematics-Physics	O	General Science
D	Physics	P	History
DE	Physical Chemistry	R	Political and Social Science
E	Chemistry		Economics
F	Biology, Zoölogy, Botany, Physiology, Neurology	S	English
G	Geography	T	Modern Languages
H	Pathology	U	Classics
I	Psychology	W	Practical Arts
J	Philosophy	X	Library Science
K	Religious Psychology	Y	Art
		Z	European War

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

The Library is open from 8 a. m. to 10 p. m. each week day, (except on legal holidays) during term time and during the Summer School session.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund left, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those of the Founder's collections that were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which, by the conditions of the will, cannot be removed from the build-

ing. A complete catalogue of these books and paintings has been published in the Publications of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection:

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees since 1901 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting "Sugar Loaf Mountain, Deerfield, Mass." by Cohn A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend,

"Knowledge is proud that he has learned so much,
Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Son of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

The Undergraduate Division (Clark College)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was in part due to the emphasis placed upon a three-year course in the will of the founder, and in part the result of a conviction that properly prepared students could, under favorable conditions, secure in three years a training in no substantial degree inferior to that ordinarily obtained in a four-year college course. Increasing pressure, on the one hand, for the admission of high school graduates who could not qualify for the three-year course and, on the other hand, for a larger development of extra-curricular activities, including athletics, has led to a modification of this plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the Bachelor of Arts degree has been offered. The opportunity for completing the requirements for graduation in three years continues to be open to qualified students and to be emphasized in accordance with the traditional policy of the College and the intent of its founder.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. It especially commends itself to earnest young men who wish to economize in either time or money. In accordance with the expressed wish of the founder, the tuition has been kept as low as possible. A general and well-balanced undergraduate curriculum leading to the degree of Bachelor of Arts is offered. Distinctively vocational or professional work is not offered. Certain departments, particularly the Department of Chemistry, have, however, been able to give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 27 and 29.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. These scholarships replace the smaller number of UNDERGRADUATE SCHOLARSHIPS previously available. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the Worcester High Schools. Of the remaining thirty scholarships, ten will be reserved for each of the three upper classes for students who rank in the upper quarter of each class.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

THE HENRY A. WILLIS FUND of \$5,000 provides an annual scholarship for students coming from Fitchburg and vicinity, but in the absence of a suitable recipient from this community other disposal may be made.

THE B'NAI BRITH SCHOLARSHIP is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the Collegiate Board.

The Board expressly reserves the right to award less than the full number of scholarships in any year if less than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If however, those who avail themselves of such aid

are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

LOAN FUNDS

THE ALUMNI LOAN FUND. Grants from this fund are made on recommendation of the President or Dean of the College in amounts determined by the need of the applicant but seldom in excess of one hundred dollars per year to any single applicant. The loans are covered by notes payable at a fixed date and bear interest from date at the rate of six percent per year. Applications may be made at any time.

THE ESTABROOK LOAN FUND. This is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees and now amounting to a total of about four thousand two hundred and fifty dollars. The fund is administered by the Dean of the College. The notes given to cover the grants bear interest at the rate of six percent per year. It is expected that loans from this fund will be repaid as promptly as possible.

OTHER FUNDS. A special alumni loan fund has been contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin and H. M. Smith, and others. This fund amounts to about \$500. Mr. Kelley has continued to give financial assistance to one or more deserving students each year.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Registrar.

It is the practice to regard every admission as an "admission on trial" to the actual work of the College. A student whose record fails to meet the expectations implied by his admission may be required to withdraw at any time.

Applications for admission should be made as early as is practicable. Official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are admitted to the University under the conditions stated on page 26.

ADMISSION TO THE FRESHMAN CLASS

A four year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. Two units are required in Mathematics (Algebra and Geometry). A single unit in a foreign language is not accepted. Commercial and industrial subjects will be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one quarter of a pupil's normal program of work for the school year.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission naming three competent references as to general character and ability. This application should be filed with the Registrar at the earliest practicable date.
2. A complete statement of his preparatory school record. This should be mailed to the Registrar by the officer who signs it. (See statement below in regard to certificates).

In addition to the above, an applicant should supply records of any entrance examinations which he may have taken.

CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) *without conditions* if they offer *fifteen certified units* of credit in acceptable subjects, or (b) *with one or two conditions* if they offer *fourteen or thirteen certified units* respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not

have the certificate privilege should arrange in consultation with the Registrar to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the college with or without conditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by examinations is offered at the college immediately before the opening of the academic year in September.* These examinations are also provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admission to them is by special permission in each case. A fee of \$2.00 is charged by the college for each examination.

ADMISSION WITH CONDITIONS

Admission with conditions is essentially admission on trial. It is not intended that such admission shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned students shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subject in June or September following the freshman year.

Applications for examinations in September, for the removal

*In 1927 from September 19 to 23.

of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee of two dollars for each examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after previous study at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the Collegiate Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the college year. In all cases of action directly affecting a student the adviser is his

representative before the Faculty and will present the student's views and desires.

REGISTRATION

When a student is accepted for admission he is given a card authorizing him to matriculate. This card, when received by the Bursar as evidence of payment of the matriculation fee, is his authorization to register.

Registration days are the first day of the academic year and the tenth day (Thursday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester, and no credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the Collegiate Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the Collegiate Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses is 50 in 100 or better, except in the case of seniors.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in College. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in College he should plan his course from the beginning as definitely as possible with his probable choice in view.

THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (*a major* and a *minor*) together with required courses in English and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A *major* consists of at least twenty-four semester hours and a *minor* of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

DIVISION A

Biology, Chemistry, Geology, Mathematics, Physics

DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology

DIVISION C

Ancient Languages, English, German, Romance Languages

STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen." The program for the freshman year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Mathematics.
4. A course in Division B.
5. An elective.
6. A second elective, for students who plan to complete the course in three years.
7. A course one hour a week during all or part of the first semester for the discussion of freshman problems.

Undergraduate, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and Juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the Collegiate Board and of the Graduate Board.

A course in English composition (English 14) is required in the second year of all students except those who rank in the upper quarter of the required course in English (English 11).

PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

1. A minimum period of study in residence of three academic years.
2. One hundred and twenty semester hours of credit with a satisfactory standing, in addition to the required work in physical training. The 120 hours required for graduation must include:
 - a. A *major* of not less than twenty-four semester hours.
 - b. A *minor* of not less than eighteen semester hours.
 - c. A requirement depending on the choice of the *major* subject, six semester hours.

Those majoring in Division A must take Mathematics 10 or 11.

Those majoring in Division B must take either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

Those majoring in Division C must take Greek or Latin in the Freshman year. This requirement is waived if two units of Greek or Latin are presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.

English 14, English Composition, is required in the second year of all students except those who rank in the upper quarter of English 11.

- e. *Foreign Language*, at least thirty semester hours including credits accepted for admission. Foreign language accepted for admission will be credited towards the fulfillment of this requirement on the basis of six semester hours for two units of preparatory work in one language, twelve semester hours for three units in one language and eighteen semester hours for four units.

One foreign language course of at least second year college grade must be taken in college.

The thirty semester hours required may be divided between any two languages or among any three, but not less than six semester hours will be accepted in any one language and at least eighteen semester hours are required in one language.

- f. *Division A*, twelve semester hours for students whose High School course included two or three units of Science in addition to Mathematics. For students who presented only a single unit of Science, this requirement is eighteen hours. For students who presented four units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

- g. *Division B*, twelve semester hours for students whose High School course included two or three units of History or related subjects. For students whose high school course included only a single unit in this field, the requirement is eighteen semester hours. For students whose high school course included four units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in any department.

3. *Physical Training*, three hours per week through the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

Students who satisfy all of the foregoing requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the Faculty there is cause for withholding this recommendation.

GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing in each of his courses. College regulations concerning scholarship are based on the fundamental assumption that in any

large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit amounts to 0.5 hour for ranks from 1 to 5, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

A student is not permitted to count toward the A.B. degree more than forty-eight semester hours of credit for courses in which his rank places him in the lowest quarter of his class.

CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student who, at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the Faculty, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High

Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

Participation in extra curricular activities is denied to those students only whose scholarship record is such as to indicate that further encroachment upon their time and attention may interfere with the completion of their course. In accordance with this principle, a student is "ineligible"^{*} for the following half semester if at any report period

*These regulations have been revised in certain details for the mid-semester reports due March 26, 1927 in order to facilitate their application.

- (a) he fails more than one course
- (b) he fails one course and has an average rank below 70 in 100.
- (c) he has an average rank below 80 in 100, even though he passes all courses.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the Collegiate Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Two formal dances, the "Junior-Freshman Prom" in the winter, and the "Senior Prom" at Commencement time, in addition to informal dances, "Bohemians," held about once in six weeks, give opportunity for relaxation and the meeting of students and faculty on a basis of general sociability. Additional opportunities of this sort are provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and many other organizations.

The Dramatic Association is a very active student organization which presents a number of plays each year under the direction of Professor L. H. Dodd of the Department of English.

On Sub-Freshman Day, in the spring, those who have some expectation of entering the College in September are guests of the University for the purpose of establishing mutual acquaintanceship.

THE CLARK MONTHLY is a magazine which was established in 1911. The editorial and business management is in the hands of a student board.

The Graduate Division

GENERAL INFORMATION

The courses in the Graduate Division are open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degrees of Master of Arts and Doctor of Philosophy are offered by the following departments:

Economics and Sociology

Geography

History and International Relations

Psychology

Work leading to the degree of Master of Arts only is offered by the departments of Biology, Chemistry, and Physics.

The other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 27 and 29.

ADMISSION

Only college graduates or those of equivalent attainments are admitted to the Graduate Division. It is highly desirable that applicants should have a reading knowledge of French and German.

Graduates of colleges on the approved list of the Graduate Board, who give evidence of superior ability and of adequate preparation for advanced study in the departments in which they propose to do their major work may be admitted by the Secretary of the Graduate Board upon the recommendation of a department. Such students may proceed to the advanced degrees in the minimum time.

Other applicants for admission will have their applications considered by the Committee on Credentials, who will determine, in consultation with the departments in which the applicants propose to do their major work, whether they may be admitted, and on what condition.

Applications for admission should be addressed to the Secretary of the Graduate Board and should be accompanied by official certificates of previous undergraduate and graduate work.

SPECIAL STUDENTS

In addition to those who are candidates for degrees, the University admits others desiring to undertake study or research, whose attainments are such as to qualify them for the work proposed. Such persons, provided they satisfy the departments concerned as to their training and competency in the subjects to which they wish to devote themselves, are not restricted in their choice and combination of studies.

Application for admission as a special student should be filed with the Registrar on blanks which may be secured from him. The application should bear the written endorsement of a representative of the department in which the student is chiefly interested.

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

Fellowships for graduate students are provided annually from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie. Other financial assistance is made possible by the University and by various bequests.

Scholarships and fellowships (except honorary appointments) are for prospective candidates for the degree of Master of Arts or of Doctor of Philosophy.

Application blanks may be obtained from the Secretary of the Graduate Board, and applications for appointments for the succeeding year should be filed with the Secretary by March first for consideration by the Board before April first. The Board may, however, consider applications made at other times. Acceptance of an appointment should be made in writing within fifteen days of notification of such appointment.

Since awards are made to students who are judged to be qualified to carry on work in certain special lines, they are not transferable from one department to another. Scholars and Fellows are expected to carry through the work of the year for which they are appointed and must devote their entire time to graduate study

and research, except insofar as they may be allowed to act as assistants in their major departments, but the entire time devoted by a student to such work shall not exceed six hours per week. Authorization of any outside work whatsoever must be obtained from the Graduate Board.

The various types of fellowships and scholarships (all remitting tuition) together with any further conditions of appointment, follow:

1. *University Graduate Scholarships.* These remit tuition and in some cases yield an additional stipend. Students who may be expected to fulfill the requirements for the Master's degree in not more than one year of residence may receive these awards.

2. *Fellowships.* These remit tuition and may be awarded to students who have completed an amount of graduate work equivalent to the requirements for the Master's degree. These fellowships may be awarded with or without stipends. The stipends awarded commonly range from \$100 to \$300.

3. *University Fellowships.* There are a limited number of these fellowships (valued at \$600) which remit tuition and provide for a room during the academic year at one of the University dormitories and board at the Dining Hall, during the regular sessions of the University.

4. *The American Antiquarian Society Fellowship in American History,* having a value of \$300 in addition to the remission of tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose major is in American History.

5. *Honorary Scholarships and Fellowships and Fellowships by Courtesy.* These appointments may be made at the discretion of the Graduate Board, and entitle the holder to remission of tuition and to the privileges of the University.

Other student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail them-

selves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

1. Regard is had to the intellectual ability of the candidate as well as to the need of pecuniary assistance.
2. Only candidates who have spent three months in graduate work at the University are considered.
3. The head of each department will consider and report to the Faculty desirable cases in his department.
4. Applications are received not later than December 15, and the awards made as soon as possible after the Christmas recess.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

LIBRARY FACILITIES

In addition to the library facilities provided by the University (see pages 33 to 35) students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

THE DEGREE OF MASTER OF ARTS

ADMISSION TO CANDIDACY

Students who have been admitted to the Graduate Division without special requirements or who have met such requirements, may be accepted as candidates for the degree of Master of Arts by the Graduate Board on recommendation of the Committee on Credentials after they have completed one semester of full-time

graduate work in residence or its equivalent at this University, and have filed with the Secretary of the Graduate Board an application for admission to candidacy with the endorsement of the major department and have paid the diploma fee.

Applications for candidacy for the Master's degree should be filed with the Secretary of the Graduate Board before the end of the first week of the semester in which the period of residence for the degree is to be completed.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. *Residence.* The Master's degree will not be conferred upon any candidate until he has completed one year of full-time work in residence, or its equivalent. Attendance at four sessions of the Summer School will ordinarily be considered as fulfilling this residence requirement if the student's entire time is devoted to graduate work.

Residence credit is also granted for work done upon field trips conducted by the Department of Geography under the direct supervision of a member of the staff of the Department.

If by reason of other employment a student is unable to devote his entire time to graduate study the Committee on Credentials will determine in consultation with the major department when the residence requirements shall have been met.

2. *Course Requirements.* The requirements for the Master's degree cannot be fulfilled by mere accumulation of credits. The candidate must demonstrate that he has a comprehensive knowledge of his major subject and that he is capable of carrying on a satisfactory investigation in the field of that subject. A minimum course credit of 18 semester hours in addition to the research work is required. At least one-half of the courses taken should be devoted to the major subject, and approximately one-third to a minor subject.

3. *Examinations.* Graduate students must pass all examinations in courses which they wish to present for credit. Failure to pass any course in his major subject will bar the student from obtaining his degree that year. The candidate must satisfy his major department that he has done his work faithfully and has mastered the subjects involved, and must pass in addition to any

written examinations which may be required, an oral examination before a jury composed of not less than three members of the Graduate Staff.

4. *Thesis.* The candidate must present a thesis on some topic which has received the approval of his major department. This thesis must be presented to the major department not later than May 15, in the case of candidates for the degree in June, and in other cases at a corresponding date. Theses must be delivered to the Secretary of the Graduate Board one week before the degree is to be conferred.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ADMISSION TO CANDIDACY

For admission to candidacy for this degree the student must have fulfilled the following conditions:

1. A written application for admission to candidacy endorsed by the major department and a receipt for the diploma fee must be filed with the Secretary of the Graduate Board.
2. Two full years of graduate work in residence, or its equivalent, must have been completed.
3. Examinations in French and German before the Committee on Proficiency in Foreign Languages must have been passed, unless another language is substituted for one of these under the authorization of the Graduate Board.
4. A written statement, approved by the chief instructor, giving the subject of the Doctor's dissertation, must be filed with the Secretary of the Graduate Board.

5. He must have demonstrated, to the satisfaction of his major department, capacity for satisfactory research.

Applications for admission to candidacy should be filed not later than November first in any academic year, by students who hope to proceed to the degree at the end of that year.

REQUIREMENTS FOR THE DOCTOR'S DEGREE

1. *Residence.* At least two years of full-time work in residence, or its equivalent, beyond the requirements for the Master's degree are necessary for the Doctor's degree. At least one year of full time residence study must be at this University.

2. *Courses of Study.* A fixed number of hours of credit is not specified for the Doctor's degree. However, the program of study of the prospective candidate, indicating major and minor subjects and endorsed by the major department, is submitted to the Graduate Board for approval in October of each year.

3. *Examinations.* Each prospective candidate for the Doctor's degree must pass a preliminary examination in his *major* subject and a final examination in his minor subject one year prior to the time that he expects to receive his Doctor's degree. He must also pass final examinations including at least a two hour oral examination before a jury including at least two members of the Graduate Board representing departments other than those in which the candidate's *major* and *minor* subjects lie. The oral examination will cover broadly the ground of the dissertation and *major* subject. Final examinations must be taken after the completion of one year of full-time work in residence subsequent to the preliminary examinations.

4. *Dissertation.* For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value. The following conditions apply to its acceptance:

- a. The dissertation must be presented to the instructor under whose direction it is written, and accepted by him before the final oral examination. It must be laid before the jury of examination in form suitable for publication. This copy of the dissertation shall be delivered to the Secretary of the Graduate Board to be deposited in the Library, where it shall remain unless exchanged for a printed copy. A duplicate copy shall also be delivered to the Secretary not later than one week before the degree is to be conferred, unless the printed copies provided for in the next paragraph are delivered at that time.
- b. One hundred printed copies of the dissertation (or an abstract acceptable to the chief instructor) shall be delivered to the Secretary of the Graduate Board within two years after the degree is conferred. In certain cases the number of required copies may be reduced.

To guarantee delivery of the printed copies the candidate must (a) file with the Secretary an acceptance of the dissertation (or abstract) for publication by a responsible editor or publisher, such publication to be within two years after the final examination, or (b) must deposit with the Bursar the sum of \$75.00 (or an acceptable bond for that amount) as surety for publication.

- c. The favorable report of the chief instructor, filed in writing with the Secretary of the Graduate Board, shall be a sufficient authorization for printing as a dissertation. The printed copies shall bear upon the cover and title page the statement of approval in the following words, over the signature of the chief instructor:

A dissertation submitted to the Graduate Board of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the Degree of Doctor of Philosophy, and accepted on the recommendation of

(NAME OF CHIEF INSTRUCTOR.)

The Graduate School of Geography

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well equipped building, including lecture rooms, offices and work rooms, and is directly connected with the University Library.

Degrees in Geography are granted by the University on the same terms as apply to degrees in other fields of study.

STAFF

WALLACE W. ATWOOD, PH.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

OLIVER E. BAKER, PH.D., Professor of Agricultural Geography and Land Utilization.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGELY, PH.D., Associate Professor of Geography in Education and Director of Home Study.

CLARENCE F. JONES, PH.D., Associate Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Associate Professor of Geography, Managing Editor, *Economic Geography*.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

S. VAN VALKENBURG, D.Sc., Special Lecturer on Geography. (Second semester, 1926-27.)

F. A. BRUNO DIETRICH, PH.D., Special Lecturer on Geography. (Six weeks, second semester, 1926-27.)

IRENE J. CURNOW, PH.D., Lecturer on Physiography. (Second semester, 1926-27.)

EDWARD H. SMITH, A.M., Special Lecturer on Oceanography.

GUY H. BURNHAM, A.M., Cartographer.

JULIA M. SHIPMAN, A.M., Assistant in Geography in Education. (1926-27.)

ALBERT LA FLEUR, A.M., Assistant in Geography. (First semester, 1926-27.)

CHARLES GOOZE, A.B., Assistant in Economic Geography. (Second semester, 1926-27.)

CLARENCE E. KOEPPE, A.B., Assistant in Climatology. (Second semester, 1926-27.)

J. HENRY WEBER, A.B., Assistant in Meteorology. (1926-27.)

OTHER MEMBERS OF THE UNIVERSITY STAFF OFFERING
CLOSELY RELATED WORK

GEORGE H. BLAKESLEE, PH.D., Professor of History and International Relations.

ALFRED L. P. DENNIS, PH.D., Professor of Modern History.

WILLIAM L. LANGER, PH.D., Assistant Professor of European History.

J. B. HEDGES, PH.D., Assistant Professor of American History.

HOMER P. LITTLE, PH.D., Professor of Geology.

SAMUEL J. BRANDENBURG, PH.D., Professor of Economics and Sociology.

JAMES ACKLEY MAXWELL, A.M., Instructor in Economics.

ROBERT H. GODDARD, PH.D., Professor of Physics.

VERNON A. JONES, PH.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, PH.D., Assistant Professor of Economics and Sociology.

DUDLEY W. WILLARD, PH.D., Assistant Professor of Sociology.

DAVID POTTER, M.Sc., Instructor in Biology.

GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize, almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the universities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men or women who can serve as supervisors or as special teachers of Geography. The large financial houses are endeavoring to train men in commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service who has not been trained in the geography of this

country and of the world. The intelligent reading of current literature is demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunities to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Library offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote, in every way possible, productive scholarship, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of the *Journal of Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 27 to 30.

OFFERINGS IN GEOGRAPHY

PRIMARILY FOR UNDERGRADUATES

First Year

FIRST SEMESTER

10a Fundamentals of Geography

SECOND SEMESTER

102b Geography of North America (Omitted 1926-27).

104b Geography of Europe

Second, Third, or Fourth Year

- | | |
|--|--|
| 14a Economic Geography
(Agricultural) | 15b Economic Geography
(Industrial) |
|--|--|

Third or Fourth Year

- Geol. 12. General Geology. (Through the year.)
 12 Weather and Climate. (Through the year.) (To be omitted 1927-28.)
 Geol. 121a. Mineralogy. Geol. 122b. Economic Geology.
 Phys. 19. Laboratory Meteorology. (Through the year.)
 19b. Mathematical Geography. 190b. Cartography and Graphics.
 (See also courses for graduate students and advanced undergraduates.)

A four-year sequence or *major* in Geography covering the requisite preliminaries for graduate work in the field is made up of the first seven courses on the list (Geog. 10, 12, 14, 15, 102 or 104, and Geol. 12). A *minor* in Geography would normally include the first year courses (Geog. 10 and 102 or 104) and two or three of the others offered.

For *major* and *minor* in Meteorology and Climatology Geog. 12, 22 and 221, and Physics 19 and 29 are available, while for a *minor* in Meteorology, Geog. 12, and Physics 19 and 29 may be taken.

GEOGRAPHY FOR GRADUATES

The outline below indicates the broad opportunities for professional training in Geography offered at Clark. Those who need to fill gaps in subjects usually covered before entering the Graduate School may find the necessary elementary courses in the list for undergraduates above. Graduate students in History, Economics and Sociology can find Geography courses closely associated with their major work, and acceptable for credit in their *major* departments. In coöperation with the Physics Department advanced work in Meteorology is now offered.

**ADMISSION TO THE GRADUATE SCHOOL
OF GEOGRAPHY**

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A.M. degree two years may be required for students who, in the opinion of the Staff have not had adequate preliminary training in Geography.

OUTLINE OF GRADUATE COURSES IN GEOGRAPHY
AND CLOSELY RELATED FIELDS
(FOR 1927-28)

[Courses in brackets are alternates, to be offered in 1928-29.]

PRINCIPLES	REGIONAL APPLICATIONS
20a(3) Field Methods. C. F. Jones.	201a(1) Reconnaissance Field Trips in New England. Ekblaw.
21a(2) Principles of Physiography. Atwood and ass't.	210b(2) Physiographic Regions of the World. Atwood. [211b(2) Physiographic Regions of North America. Atwood.]
31a Oceanography. (Lectures.) Edw. H. Smith.	
Phys.29ab6 Physics of the Air. Goddard and Brooks.	220b(2) Climates of the World. Brooks.
22a(2) Principles of Climatology. Brooks and ass't.	[221b(2) Climatology of North America. Brooks.]
33a(1) Soils. (Lectures.) Marbut.	230b(2) Plant Regions of the World. Ekblaw.
23a(2) Plant Geography. Ekblaw.	[231b(2) Plant Regions of North America. Ekblaw.]
Ec.32a(3) Land Economics. Branenburg.	243a(3) Economic Geography of South America. C. F. Jones.
242a(2) Physical Bases of United States Agriculture. Ekblaw	
342b(3) Agricultural Resources and Utilization. O. E. Baker.	[260b(3) Geography of World Commerce. C. F. Jones]
25b(3) Industrial Geography. C. F. Jones.	
27a(3) General Principles of Anthropogeography. Semple.	Hist. 211a(3) Historical Geography of the United States. Hedges.
28b(3) Geography in Education. Ridgley.	274a(2) Geography of Northwest Europe. Semple.
Math.113a(3) Mathematical Theory of Statistics. Williams.	(275a(3) Geography of the Mediterranean Region. Semple.)
Ec.16b(3) Statistics. Maxwell.	(277a(2) Geography of Eastern Asia. Semple.)
29b(1) Graphics. Burnham, Baker, Atwood.	37a(1) History of Geography. Semple.)

NOTE: The numbers in parentheses indicate semester hours credit.

In addition to the stated courses listed above there is a General Seminar (Geog. 301), a Theses Seminar (Geog. 30), and Research offerings (Geog. 300-390). All students are expected to attend and contribute to the General Seminar.

COURSES IN GEOGRAPHY

1. PRIMARILY FOR UNDERGRADUATES

10a. FUNDAMENTALS OF GEOGRAPHY. A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships existing between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

Three hours, first semester. M. W. F., 8.

MR. LA FLEUR, (1926-27.)

ASSOCIATE PROFESSOR RIDGLEY, (1927-28.)

102b. GEOGRAPHY OF NORTH AMERICA. An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents.

Open to Freshmen.

Three hours, second semester. M. W. F., 8.

Omitted in 1926-27. ASSOCIATE PROFESSOR RIDGLEY

104b. GEOGRAPHY OF EUROPE.

Open to Freshmen.

Three hours, second semester. M. W. F., 8.

To be omitted in 1927-28. DR. VAN VALKENBURG

GEOLOGY 12. GENERAL GEOLOGY. See page 111.

Three hours, through the year. M. W. F., 8; F. 2.

PROFESSOR LITTLE

12. WEATHER AND CLIMATE. This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out

the intimate effects of the weather on all sorts of human affairs. Elementary Meteorology is taken up systematically during the first semester, and elementary Climatology the second.

Three hours, through the year. Tu. W. Th. F., 12. Occasional laboratory periods. Daily pilot balloon flights. PROFESSOR BROOKS
ASSISTED BY MR. KOEPPE AND MR. WEBER
To be omitted in 1927-28.

PHYSICS 19. LABORATORY METEOROLOGY. See page 130.
Three hours, through the year.

PROFESSOR GODDARD AND PROFESSOR BROOKS
Omitted 1926-27.

14a. ECONOMIC GEOGRAPHY (Agricultural). A study of the influence of the natural environment on the production of and trade in the more important agricultural products. This course and 15b constitute a full year's course in Economic Geography.

Three hours, first semester. Tu. Th. S., 8.

ASSOCIATE PROFESSOR JONES

15b. ECONOMIC GEOGRAPHY (Industrial). A study of the influence of the natural environment on the production of and trade in the more important mineral, forest, factory, and sea products; continental and ocean trade routes; major commercial divisions and trade regions of the world.

Three hours, second semester. Tu. Th. S., 8.

ASSOCIATE PROFESSOR JONES

ASSISTED BY MR. GOOZE

GEOLOGY 121a. MINERALOGY. See page 111.

Three hours, first semester. PROFESSOR LITTLE

GEOLOGY 122b. ECONOMIC GEOLOGY. See page 112.

Three hours, second semester. PROFESSOR LITTLE

19b. MATHEMATICAL GEOGRAPHY. A study of the earth's relations to the sun, moon and other heavenly bodies. The seasons, changing length of day and night, latitude and longitude, time and the calendar; the principal constellations. For teachers and others who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Prerequisite: Geography 10a, or equivalent.

Three hours, second semester.

MR. BURNHAM

190b. CARTOGRAPHY AND GRAPHICS. Principles and practice of map-making, construction of diagrams, and relief drawings.

Prerequisite: Geography 10a, or equivalent.

Three hours. second semester.

MR. BURNHAM

MATHEMATICS 113a. STATISTICS. (See page 126.)

Three hours, first semester.

PROFESSOR WILLIAMS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20a. FIELD METHODS. An intensive study of the Deerfield Valley (Mass.) in the field. Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this.

Prerequisites: Geography 10, or equivalent, and permission of the instructor.

Three hours, Sept. 1-20, 1927.

New course

ASSOCIATE PROFESSOR JONES

201a. RECONNAISSANCE FIELD TRIPS IN NEW ENGLAND. Trips to Asnebumskit, Cape Cod, the White Mountains and the North Shore. Required of all candidates for graduate degrees in geography.

Prerequisites: Geography 10, or equivalent, and elementary physiography.

One hour, Th. to Sat. late Sept. and early Oct.

ASSOCIATE PROFESSOR EKBLAW

21a. PRINCIPLES OF PHYSIOGRAPHY. A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite: Geology 12, or equivalent in Physiography.

Two hours, M. 9, Tu. 2-3:30.

New course.

PROFESSOR ATWOOD AND ASSISTANT

21b. COMPARATIVE REGIONAL PHYSIOGRAPHY. A critical review of the principles of Physiography and their application in the analysis of the physiographic features and physiographic history of selected areas.

Prerequisite: Geology 12, or equivalent in Physiography.

Three hours, second semester. M. W. F., 9.

To be replaced 1927-28 by Geography 21a, and 210b.

PROFESSOR ATWOOD

210b. PHYSIOGRAPHIC REGIONS OF THE WORLD.

Prerequisite: Geography 21a or equivalent.

Two hours, second semester. M. W., 9.

New course.

PROFESSOR ATWOOD

211b. PHYSIOGRAPHIC REGIONS OF NORTH AMERICA.

Prerequisite: Geography 21a or equivalent.

Two hours, second semester.

New course, to be offered in 1928-29.

PROFESSOR ATWOOD

PHYSICS 29. PHYSICS OF THE AIR. (See page 130.)

PROFESSOR GODDARD AND PROFESSOR BROOKS

22a. PRINCIPLES OF CLIMATOLOGY. A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.

Prerequisite: Geography 12 or equivalent.

Two hours, first semester. Tu. W., 9.

New Course.

PROFESSOR BROOKS AND ASSISTANT

220b. CLIMATES OF THE WORLD. An explanatory comparison of the major types of climatic environment found in different parts of the world; e. g. continental, marine and mountain climates.

Prerequisite: Geography 22a or equivalent.

Two hours, second semester. M. W., 10.

New course, to be offered 1927-28.

PROFESSOR BROOKS

221a. CLIMATOLOGY OF NORTH AMERICA. Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original theses.

Prerequisite: Geography 22a or equivalent.

Three hours, first semester. Tu. Th. S., 9.

To be omitted, 1927-28.

PROFESSOR BROOKS

BOTANY 24a. GENERAL BOTANY TREATED FROM A TAXONOMIC AND ECOLOGIC STANDPOINT. (See page 88).

Three hours, first semester.

MR. POTTER

23a. PLANT GEOGRAPHY. (New course, to be offered 1927-28, replacing in part course 33a.) The responses of plants and plant

groups to the factors of physical environment and their interrelationships. The physical bases of plant distribution.

Prerequisites: Botany 24a or equivalent, Geology 12 or equivalent in physiography, and Geography 12 or equivalent.

Two hours, first semester. M. W., 3.

ASSOCIATE PROFESSOR EKBLAW

230b. PLANT REGIONS OF THE WORLD. The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities.

Prerequisite: Geography 23a.

Two hours, second semester. M. W., 11.

New course, to be offered 1927-1928.

ASSOCIATE PROFESSOR EKBLAW

231b. PLANT REGIONS OF NORTH AMERICA. An intensive study of plant distribution in North America.

Two hours, second semester.

New course, to be offered first 1928-29.

ASSOCIATE PROFESSOR EKBLAW

241b. AGRICULTURAL GEOGRAPHY OF NORTH AMERICA. A course describing the agriculture of North America north of Mexico and the influence of physical and economic conditions in directing its development. In the first part of the course the geographic distribution of the crops and classes of live stock is discussed. In the second part the description proceeds by agricultural regions, subdivided into areas.

Prerequisites: Geography 12, 14a and 21a or equivalent.

Three hours, second semester. Tu. Th. S., 9.

PROFESSOR BAKER

242a. PHYSICAL BASES OF UNITED STATES AGRICULTURE. A course in the relation of physical environment to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural regions; the influences of relief, climate, soil, and, other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Prerequisite: Geography 10, or equivalent.

Two hours, first semester. ASSOCIATE PROFESSOR EKBLAW

New Course, to replace 241b.

243a. ECONOMIC GEOGRAPHY OF SOUTH AMERICA. A detailed study of the economic activities of the people of South America in relation to the environment; the activities of the several regions of each country are analyzed in their relation to the elements of the natural environment separately and to the environment complex.

Prerequisite: Geography 14a, and Geography 12 or Geology 12.
Three hours, first semester. Tu. Th. S., 10.

ASSOCIATE PROFESSOR JONES

25b. INDUSTRIAL GEOGRAPHY. A study of the chief manufacturing regions of the world and of special manufacturing industries in their geographic relations.

Prerequisites: Geography 15, and 21 or 22.

Three hours, second semester. M. T. W., 8.

Omitted 1926-27.

ASSOCIATE PROFESSOR JONES

263b. GEOGRAPHY OF SOUTH AMERICAN COMMERCE.

Prerequisite: Geography 243a.

One hour, second semester.

ASSOCIATE PROFESSOR JONES

To be omitted 1927-28.

27a. GENERAL PRINCIPLES OF ANTHROPOGEOGRAPHY. This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastline, drainage systems, climate, and other geographic conditions, both separately and in their mutual interplay. Ellen C. Semple's *Influences of Geographical Environment* will be used as a text.

Prerequisites: 9 hours of Geography or History, and permission of the instructor.

Three hours, first semester. M. W. F., 10.

Omitted in 1926-27.

PROFESSOR SEMPLE

HISTORY 211a. HISTORICAL GEOGRAPHY OF THE UNITED STATES. (See page 120).

Three hours, first semester. M. W. F., 11.

Omitted, 1926-27.

ASSISTANT PROFESSOR HEDGES

274a. GEOGRAPHY OF NORTHWEST EUROPE. This course includes a study of the climate, relief, coast line and marginal seas

of the continent as a whole, to be followed by a detailed consideration of the economic and political geography of the Western European states.

Prerequisite: 6 hours of European history.

Two hours, first semester. M. W., 2. PROFESSOR SEMPLE
Omitted in 1926-27.

275a. THE GEOGRAPHY OF THE MEDITERRANEAN REGION, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites: 9 hours of Geography or History, and permission of instructor.

Three hours, first semester. M. W. F., 10.

To be omitted in 1927-28. PROFESSOR SEMPLE

207b. THE GEOGRAPHY OF EASTERN ASIA, with special reference to the economic, cultural territorial development of the Japanese Empire. A lecture course with generous reading assignments.

Prerequisite: Geography 10a or some history of the Far East.

Three hours, second semester. DR. VAN VALKENBURG

To be omitted in 1927-28.

28b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American school system, including elementary school, high-school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites: Geography 10a and other geography courses totaling at least 18 hours.

Three hours, second semester. M. W. F., 4.

ASSOCIATE PROFESSOR RIDGLEY

29b. GRAPHICS. Construction of diagrams, and relief drawings.

One hour, second semester. M., 5. (To be M., 3, 1927-28.)

PROFESSOR BAKER, PROFESSOR ATWOOD AND MR. BURNHAM

3. PRIMARILY FOR GRADUATES

30. SEMINAR IN GEOGRAPHY. Candidates for Master's and Doctor's degrees are directed in selection of themes for theses. Outlines of theses are here presented for criticism, followed by presentation of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

Two hours, through the year. Th., 4-6. (To be Tu., 4-6, 1927-28.)

PROFESSOR SEMPLE AND ASSOCIATE PROFESSOR JONES,
first semester; PROFESSOR ATWOOD, BAKER, BROOKS
AND ASSOCIATE PROFESSOR EKBLAW, second semes-
ter.

301. GENERAL SEMINAR. City geography was the special topic for discussion the first semester, and, jointly with the Economics and History and International Relations departments, the Far East, during the second semester of 1926-27.

One hour, through the year. Tu., 7:30. THE GEOGRAPHY STAFF

31a. OCEANOGRAPHY. Five lectures dealing principally with physical oceanography, illustrated chiefly by the work of the International Ice Patrol. MR. SMITH

33a. SOILS AND PLANT GEOGRAPHY. (Replaced by Geography 23a and 33a in 1927-28.) Types of soils and their mode of formation. Soil regions in relation to climate and vegetation. Native vegetation in relation to soils and climate. Plant regions of North America and the rest of the world. Lectures, reading and field work.

Daily, at 8 a. m., October to December.

Three hours, first semester. (1926-27.)

DR. MARBUT AND ASSOCIATE PROFESSOR EKBLAW

33a. SOIL GEOGRAPHY. (New course, to be offered 1927-28.) Geographic types of soils, their mode of formation, and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture.

One hour, October. Daily, 8 a. m. Field trips. DR. MARBUT

300. RESEARCH IN REGIONAL GEOGRAPHY.

PROFESSOR ATWOOD, ASSOCIATE PROFESSOR EKBLAW
OR ASSOCIATE PROFESSOR JONES

303. RESEARCH IN THE GEOGRAPHY OF SOUTH AMERICA.

ASSOCIATE PROFESSOR JONES

310. RESEARCH IN REGIONAL PHYSIOGRAPHY. A critical review of the source material on Physiography and of leading contributions made by those who have developed this phase of geographic investigation.

PROFESSOR ATWOOD

320. RESEARCH IN CLIMATOLOGY OR CLIMATES OF THE WORLD. Special studies in the climates of particular regions or in comparative climatography.

PROFESSOR BROOKS

PHYSICS 39. RESEARCH IN METEOROLOGY. (See page 131.)

PROFESSOR GODDARD AND PROFESSOR BROOKS

330. RESEARCH IN SOILS OR PLANT GEOGRAPHY.

DR. MARBUT OR ASSOCIATE PROFESSOR EKBLAW

ECONOMICS 32a. LAND ECONOMICS. (See page 103.)

Three hours, first semester.

PROFESSOR BRANDENBURG

342b. LAND UTILIZATION AND AGRICULTURAL RESOURCES. This course outlines the physical and economic conditions which determine the utilization of land for crops, pasture, and forest; describes the geographic distribution of such lands; considers the probable need for these classes of land as population increases, and the possibilities of meeting this need by irrigation, drainage, clearing, more intensive cultivation, and other means; closing with a discussion of a national land policy.

Prerequisites: Geography 14, 21, and approved courses in Economics.

Three hours, second semester. Tu. Th. S., 11. (To be M. Tu. W., 12, 1927-28.)

PROFESSOR BAKER

AND ASSOCIATE PROFESSOR EKBLAW

340. RESEARCH IN LAND UTILIZATION.

PROFESSOR BAKER

350. RESEARCH IN ECONOMIC GEOGRAPHY.

ASSOCIATE PROFESSOR JONES

37b. HISTORY OF GEOGRAPHY.

One hour, second semester. M., 3. Omitted, 1926-27.

PROFESSOR SEMPLE

370. RESEARCH IN ANTHROPOGEOGRAPHY.

PROFESSOR SEMPLE

39. RESEARCH IN GEOGRAPHY IN EDUCATION.

ASSOCIATE PROFESSOR RIDGLEY

390. FIELD GEOGRAPHY (Individual Work). For students in the field collecting information for their theses.

HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people, and it is necessary for all teachers of Geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer School work is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

COURSES

1. THE TEACHING OF GEOGRAPHY IN THE ELEMENTARY SCHOOL.
2. THE TEACHING OF HOME GEOGRAPHY AND WORLD AS A WHOLE.
3. THE TEACHING OF NORTH AMERICA.
4. THE TEACHING OF SOUTH AMERICA, EUROPE AND ASIA.
5. THE TEACHING OF GEOGRAPHIC FACTORS AND THE UNITED STATES IN ITS WORLD RELATIONS.
6. INDUSTRIAL AND COMMERCIAL GEOGRAPHY.
7. GEOGRAPHY OF NORTH AMERICA.
8. GEOGRAPHY OF SOUTH AMERICA.
9. GEOGRAPHY OF EUROPE.

10. GEOGRAPHY OF THE EASTERN CONTINENTS.
11. THE PHYSICAL GEOGRAPHY OF THE LANDS.
12. WEATHER AND CLIMATE.
13. THE PASSING WEATHER.
14. CLIMATOLOGY AND CLIMATES OF THE WORLD.
15. CLIMATOLOGY OF THE UNITED STATES.
16. SPECIAL STUDIES IN GEOGRAPHY.

CREDITS AND TUITION

Each course consists of 36 written lessons and is the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson will require about four or five hours.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

The Summer School

The session of 1927 will begin July 5 and end August 12, Geography and History constitute the chief departments of instruction, while courses are offered also in Psychology, Economics, English, French, German and Geology.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the Collegiate and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

The Summer School Bulletin, published about February 1, containing detailed information about the coming session with descriptions of the various courses, may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1926 will be found in the Register, beginning on page 154 of this Catalogue.

FIELD TRIPS FOLLOWING SUMMER SCHOOL

Arrangements have been made for two field trips following the Summer School. Each trip will be made by motor bus with accommodations for twenty-two persons. All trips begin Saturday, August 13, at 8 A. M., and continue for two weeks, returning to Worcester on Friday evening, August 26. These trips are open to any teacher or student who wishes to study geography—out-of-doors, whether a member of the Summer School or not. Advanced students who desire training for thesis work should enroll for The Lake Champlain-Montreal Trip. The tuition fee

for each trip is \$15; the cost of transportation is \$60; hotel expenses, including meals is estimated at \$60. Persons coming from a distance to join either trip should arrive in Worcester not later than Friday, August 12. Rooms may be obtained near the University. Reservations will be made on request.

Each trip involves special studies of the natural environment, with definite relationship to human activities.

All inquiries concerning enrollment, reading lists, and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts. As soon as reservation for a trip has been made, the student will be put into communication with the instructor in charge.

Early correspondence is invited, as final arrangements must be completed early in July.

NEW ENGLAND FIELD TRIP

This trip will be in charge of a competent leader to be announced later.

THE LAKE CHAMPLAIN-MONTREAL TRIP

This trip will be in charge of Assistant Professor Clarence F. Jones of Clark University.

Committee on the Summer School

THE PRESIDENT OF THE UNIVERSITY

THE DIRECTOR OF THE SUMMER SCHOOL

MESSRS. BLAKESLEE, MELVILLE, MURCHISON

Officers of Instruction and Administration

*WALLACE WALTER ATWOOD, PH.D. Geography

B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.

DOUGLAS CLAY RIDGLEY, PH.D. Geography

A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Associate Professor of Geography in Education, Clark University.

*To be absent in 1927, conducting European Field Trip.

- CHARLES FRANKLIN BROOKS, PH.D. Meteorology and Climatology
 A.B., Harvard University, 1911; A.M., 1912; Ph.D.,
 1914. Professor of Meteorology and Climatology,
 Clark University.
- CLARENCE FIELDEN JONES, PH.D. Geography
 B.S., University of Chicago, 1917; Ph.D., 1923. As-
 sociate Professor of Economic Geography, Clark Uni-
 versity.
- WALTER ELMER EKBLAW, PH.D. Geography
 A.B., University of Illinois, 1910; A.M., 1912; Ph.D.,
 Clark University, 1926. Geologist and Botanist,
 Crockerland Expedition, 1913-17. Associate Professor
 of Geography and Managing Editor of *Economic
 Geography*, Clark University.
- ALFRED WILLIS ABRAMS, PH.B. Geography and Education
 Director, Visual Instruction Division, New York State
 Department of Education.
- GUY H. BURNHAM, A.M. Cartography
 A.B., Clark University, 1916; A.M., 1922. Cartographer,
 Clark University.
- WILLEM VAN ROYEN Geography
 Graduate, University of Utrecht, Holland, 1925. Uni-
 versity Fellow, Clark University, 1926-27.
- HOMER PAYSON LITTLE, PH.D. Geology
 A.B., Williams College, 1906; Ph.D., Johns Hopkins
 University, 1910. Dean of the College and Professor
 of Geology, Clark University.
- THEODORE COLLIER, PH.D. History
 A.B., Hamilton College, 1894; A.M., 1897; Ph. D., Cor-
 nell University, 1906. Professor of History and Inter-
 national Relations, Brown University.
- MERLE EUGENE CURTI, A.M. History
 A.B., Harvard College, 1920; A.M., Harvard University,
 1921. Assistant Professor of History, Smith College.
- EDGAR C. BYE, A.M. History
 A.B., Haverford College, 1915; A.M., University of

Pennsylvania, 1922. Professor of Social Studies, Cumberland Valley State Normal School, Shippensburg, Pennsylvania.

SAMUEL J. BRANDENBURG, PH. D.	Economics
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.	
VERNON A. JONES, PH.D.	Psychology and Education
B.A., M.A., University of Virginia, 1920; M.A., Columbia University, 1924; Ph.D., 1926. Associate Professor of Educational Psychology, Clark University.	
EARL R. K. DANIELS, PH.D.	English
A.B., Clark University, 1914; Ph. D., Harvard University, 1926. Professor of English, State Normal School, Buffalo, N. Y.	
ROBERT STANLEY ILLINGWORTH, A.B.	English and Dramatics
A.B., Clark College, 1917; Student, American Academy of Dramatics, 1917-18. Professor of Public Speaking and Director of Dramatics, Lafayette College.	
LELAND LEAVITT ATWOOD, A.M.	French
A.B., Clark University, 1916; A.M., Cornell University, 1922. Assistant Professor in Romance Languages, Clark University.	
THEKLA E. HODGE, B.ED.	German
Head of the Department of Modern Languages, Athol, Mass., High School, 1920-25.	
EUGENE C. BELKNAP	Source Material in Economic Geography
	Curator, Department of Chemistry.
CAREY EYSTER MELVILLE	Registrar
FLORENCE CHANDLER	Bursar

List of Courses

- | | |
|---|--------------|
| SS101. Geography of North America | MR. C. JONES |
| SS142. The Geography of United States Agriculture | MR. EKBLAW |

SS104.	Geography of Europe	MR. VAN ROYEN
SS14.	Economic Geography	MR. C. JONES
SS12w.	Weather	MR. BROOKS
SS12c.	Climate	MR. BROOKS
SS18e.	The Teaching of Geography in the Elementary School	MR. RIDGLEY
SS182ny.	Geography of New York State	MR. ABRAMS
SS19c.	Graphics and Cartography	MR. BURNHAM
SS19m.	Mathematical Geography	MR. BURNHAM
SS18m.	Materials in Geography	MR. RIDGLEY and MR. BELKNAP
SS10f.	Field Work in Geography	THE GEOGRAPHY STAFF
SS27.	Influences of Geographic Environment	MR. EKBLAW
SS28s.	Geography in Education for Special Teachers	MR. RIDGLEY
SS204f.	European Field Trip	MR. ATWOOD
SS30.	Seminar in Geography	THE GEOGRAPHY STAFF
SS300.	Research in Regional Geography	MR. EKBLAW
SS32.	Research in Climatology	MR. BROOKS
SS34.	Research in Economic Geography	MR. C. JONES
		GEOLOGY
SS1.	Physiography	MR. LITTLE
SS2.	Structural and Historical Geology	MR. LITTLE
		HISTORY
SS21.	The Revolutionary and the Napoleonic Era	MR. COLLIER
SS22.	European International Relations Since the World War	MR. COLLIER
SS23.	Social and Intellectual History of the United States	MR. CURTI
SS24.	American Colonial History	MR. CURTI
SS15.	Problems in American National Government	MR. BYE
SS16.	The Teaching of History in Junior and Senior High Schools	MR. BYE

ECONOMICS

- | | | |
|-------|-------------------------|-----------------|
| SS1a. | Principles of Economics | MR. BRANDENBURG |
| SS4. | Major Economic Problems | MR. BRANDENBURG |

PSYCHOLOGY AND EDUCATION

- | | | |
|-------|---|--------------|
| SS10. | The Visual Method of Instruction | MR. ABRAMS |
| SS11. | Tests and Measurements Applied | MR. V. JONES |
| SS12. | Present Day Demands Upon the Schools
(Philosophy of Education) | MR. V. JONES |

ENGLISH

- | | | |
|-------|-----------------------------------|-----------------|
| SS1. | Backgrounds of Literary Criticism | MR. DANIELS |
| SS2. | Studies in Romantic Poets | MR. DANIELS |
| SS5. | Dramatics | MR. ILLINGWORTH |
| SS15. | Fundamentals of Public Speaking | MR. ILLINGWORTH |

FRENCH

- | | | |
|------|-------------------------|------------|
| SS1. | Elementary French | MR. ATWOOD |
| SS2. | Reading of French Prose | MR. ATWOOD |

GERMAN

- | | | |
|------|--|------------|
| SS1. | Elementary German | MRS. HODGE |
| SS2. | Grammar Review and Reading of German Prose | MRS. HODGE |

The Bachelor of Education Degree

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

Courses are offered during the regular academic year on Saturday mornings and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in three or four years the equivalent of a year of study in residence.

At the meeting of the Board of Trustees held October 26, 1923, formal action was taken authorizing the faculty to receive candidates for the degree of Bachelor of Education under the following regulations:

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.
2. REQUIREMENTS FOR THE DEGREE:
 - a. At least one year's teaching experience.
 - b. At least 30 semester hours of credit earned in residence at Clark University.
 - c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
 - d. Requirements in particular subjects:
 - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.

- (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.
- (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
- (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course or its equivalent.

3. STANDARD OF SCHOLARSHIP: The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home-study or extension courses, the acceptance of any work of this type to be subject to the approval of the Registrar.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

Special Courses for Teachers

In keeping with its long established policy, Clark University will again offer during the academic year 1927-28 a series of courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region.

The courses offered are of two general types; (a) *content courses*, with the needs of the teacher in mind, designed to provide up-to-date, exact and scholarly surveys of subject matter.

(b) *Aims and methods courses*, designed to provide a background for the solution of the practical problems of the classroom.

The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University.

Departmental Announcements and List of Courses

Courses offered by the several departments are listed under three headings:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).
2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).
3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1927-28.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

PROFESSOR BRACKETT

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twenty-four semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. In admitting students to the College full credit is given for one, two, or three years of high school Greek. Those who have pursued success-

fully the study of Greek for two or three years may enter directly into course 12. Students who purpose to study Greek in college are strongly advised to take this subject in the preparatory school for two years if possible.

Since a substantial number of students are admitted to the College who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

COURSES IN GREEK

1. PRIMARILY FOR UNDERGRADUATES

11. FIRST YEAR COURSE. The purpose of this course is to furnish to mature students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific nomenclature should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. T. Th. S., 8.

PROFESSOR BRACKETT

12. XENOPHON, *Anabasis*; HOMER, *Iliad*. About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to study of the *Iliad*. The aim in this work is distinctly literary, and such selections are read as will enable the student to gain as far as possible an intelligent appreciation of the poem as a whole.

Open to Freshmen.

Three hours, through the year. M. W. F., 11.

PROFESSOR BRACKETT

13 THE GREEK DRAMA. Aeschylus. *Prometheus Bound*; Sophocles, *Oedipus Tyrannus*; Euripides, *Hippolytus*. This course is designed to give a general view of Greek tragedy. Lectures or discussions deal with the staging of a Greek play, the origin and development of the drama, and the other works of the

authors read. Two or three other plays of each of these authors are read in translation and discussed in class.

Three hours, through the year.

Omitted in 1926-27.

14. HERODOTUS; LYRIC POETRY; THEOCRITUS.

Three hours, through the year.

Omitted in 1926-27, and to be omitted in 1927-28.

16b. GREEK TRAGEDY IN ENGLISH. This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and modern drama. The instructor will deal, in lectures, with the origin and development of Greek tragedy, the Greek theatre and related subjects, and Aristotle's theories concerning tragedy.

Three hours, second semester. M. W. F., 11.

PROFESSOR BRACKETT

Omitted in 1926-27.

COURSES IN LATIN

1. PRIMARILY FOR UNDERGRADUATES

11. FIRST YEAR COURSE. This course is designed to give men who have never studied Latin an opportunity to learn some of the essentials of the subject in college. It is conducted entirely with reference to the needs of the average student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the department.

Three hours, through the year. M. W. F., 10.

Omitted in 1926-27.

PROFESSOR BRACKETT

12. CATULLUS, Selections; CICERO, *de Senectute*; HORACE, Selections from the Odes. The year is about equally divided between the three authors. In connection with the work in Horace and Catullus metrical translation is encouraged, and some of the more famous poems are committed to memory.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

PROFESSOR BRACKETT

13a. PLAUTUS, *Captivi*; TERENCE, *Phormio*, Ancient comedy, Greek and Latin, is discussed, and the writings of Plautus and Terence are compared.

Three hours, first semester.

Omitted in 1926-27, and to be omitted in 1927-28.

14b. LETTERS OF PLINY; SELECTIONS FROM THE HISTORIES OF TACITUS, AND FROM JUVENAL. These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

Three hours, second semester.

Omitted in 1926-27.

15a. SELECTIONS FROM CAESAR AND CICERO. This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Three hours, first semester. M. W. F., 11.

Omitted in 1926-27, and to be omitted in 1927-28.

15b. SELECTIONS FROM OVID'S *Metamorphoses*.

Three hours, second semester. M. W. F., 11.

Omitted in 1926-27, and to be omitted in 1927-28.

16a. LUCRETIUS, *de Rerum Natura*, Selections.

Three hours, first semester. Tu. Th. S., 11.

PROFESSOR BRACKETT.

Omitted in 1926-27.

DEPARTMENT OF BIOLOGY

PROFESSOR COLE, MR. POTTER

The courses in Biology are designed to meet the needs of four general classes of students. Courses 11, 14, 20, 23, 24, 30 and 31 are offered every year; the other courses alternate yearly.

The first class of students consists of those who desire to take Biology as a minor to supplement other courses or as a general cultural subject. Such students will take Biology 11, followed by any of the other courses open to them.

The second class includes those who wish to prepare themselves

to study Medicine or Sanitary Science. These students should *major* either in Biology or Chemistry. A *major* in Biology requires twenty-four semester hours, which, for premedical students, should include courses 11, 13, 15 and 16. The subjects pursued will then be General Biology, Vertebrate Anatomy, Embryology and Histology. Students preparing to take up the study of Sanitation should add to the premedical subjects course 18, and if possible, course 20 also.

The third class comprises those who intend to make Biology their profession; who wish to prepare themselves to teach the subject and to become skilled investigators. Such students should *major* in Biology, and should confer with the instructors in the department before planning their programs. Supplementary minor courses shall be taken in Chemistry, Physics, Geology and Psychology, with at least two-thirds of them in Chemistry and Physics.

The fourth class consists of graduate students who desire to pursue research work in Biology with the possibility of satisfying the requirements for the degree of Master of Arts. For such students correlative courses in Chemistry, Physics, Geology and Mathematics are required, the number and extent to be determined upon consultation with the head of the Biology department. Opportunity is afforded for instruction, supervised experimental work and for independent investigation. The laboratories are equipped with the usual apparatus and materials needed in biological study, and any additional equipment required for special purposes will be provided whenever possible. Conditions are favorable for consultation of biological literature, since the library has complete files of the more important journals in Zoology, Physiology and Biological Chemistry, as well as a large collection of books in these and other branches of Biology.

Graduate scholarships are available for students in this department.

COURSES IN BIOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL BIOLOGY. This course is designed to acquaint the student with the elementary forms, forces and laws of living matter. In addition to class-room work, illustrative types are

observed in the laboratory, and simple experiments are performed. The first semester deals with plant biology, furnishing the student with a general knowledge of plant life, with emphasis placed upon those plants which illustrate best the laws of life, and the agencies at work which have produced the present varied flora. The second semester considers animal biology with emphasis placed upon the morphological and physiological features of animals in comparison and contrast with those of plants. The subjects of behavior, genetics and evolution are treated during the latter part of the semester. This course is prerequisite to all other courses in Biology. Three lectures and one laboratory period per week. Due to limited accommodations, the number of students accepted for this course is restricted.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W., 2.

PROFESSOR COLE, MR. POTTER

13a. COMPARATIVE ANATOMY OF VERTEBRATES. A comparative study of the structure and development of vertebrate animals. This course is designed to meet the needs of prospective students of Medicine, and those who intend to *major* in Biology. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, first semester. W. F., 9; M. T., 2; and additional period.

MR. POTTER

To be offered in 1928-29 and alternate years.

14. BOTANY. This course deals with a more detailed study of plant life and serves as a continuation course after Biology.

11. Emphasis is placed upon those groups of plants which are of evolutionary significance. In addition this study will be augmented in the spring by field work to acquaint the student with the local flora. Prerequisite Biology 11. Three lectures and one laboratory period per week.

Three hours, through the year. M. W. F., 11; Th., 2.

MR. POTTER

15a. EMBRYOLOGY. The origin of the germ cells and of the individual; the development of the individual from the egg to the adult, with consideration of the problems of differentiation. The

laboratory work includes an introduction to embryological technique and the dissection of the early stages of representative vertebrates. Prerequisite is Biology 11, with Biology 13 recommended. Two lectures and two laboratory periods per week.

Three hours, first semester. W. F. 9; M. Tu., 2 and additional period. MR. POTTER

To be offered in 1927-28 and alternate years.

16b. **HISTOLOGY.** A study of the cellular structure of organisms, including an introduction to histological technique. Prerequisite is Biology 11, with Biology 13 recommended. Two lectures and two laboratory periods per week.

Three hours, second semester. W. F., 9; M. Tu., 2 and additional period. MR. POTTER

To be offered in 1928-29, and alternate years.

18b. **BACTERIOLOGY.** An introduction to the principles of bacterial physiology, and to general bacteriological technique. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, second semester. W. F., 9; Tu., 2, and additional period. MR. POTTER

To be offered in 1927-28, and alternate years.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES.

20. (Numbered 12 in 1925-26). **GENERAL PHYSIOLOGY.** An introduction to the study of the fundamental properties of living matter; its composition, organization and behavior. Emphasis is placed upon the laboratory work involving experiments with living organisms and the interpretations of results. Prerequisite is Biology 11; Chemistry 11 and Physics 11 are also desirable. Two lectures and two laboratory periods per week.

Three hours, through the year. Tu. Th., 11; Tu., 2, and additional period. PROFESSOR COLE

21a. (Numbered 20a in 1925-26). **INVERTEBRATE ZOOLOGY.** A detailed study of the structure, life-histories and behavior of representative invertebrate animals. Emphasis is placed upon the laboratory work. Prerequisites are Biology 11, 13 or 15, and 16.

Three hours, first semester. Hours to be arranged.

Two lectures and two laboratory periods per week.

To be offered in 1927-28 and alternate years. PROFESSOR COLE

22b. (Numbered 21a in 1925-26). GENETICS. The principles of variation, selection, and heredity; the physical bases of heredity; Mendelian and non-Mendelian inheritance and the application of their laws to breeding and eugenics are the topics considered in this course. Illustrative laboratory experiments are performed. Prerequisites are Biology 11, 15, 13 or 16 and Mathematics 11 or 18. Two seminars and two laboratory periods per week.

Three hours, first semester. T., 9-11; W. 2.

PROFESSOR COLE

To be offered in 1926-27 and alternate years.

23. (Numbered 22 in 1925-26). SPECIAL PROBLEMS. Students who wish to pursue any of the subjects described above in more detail, or any other approved biological subject will be assigned laboratory and library work, planned in accordance with the preparation and abilities of the individual students. Reports will be made twice weekly. Prerequisites are at least six semesters of Biology courses in which a rank in the upper half of the respective courses was maintained.

Hours and credits to be arranged.

PROFESSOR COLE; MR. POTTER

24a. TAXONOMY AND ECOLOGY OF PLANTS. A study of the main types of vegetation with special emphasis upon the Flowering Plants. The use of keys for the identification of plants together with field trips will constitute the laboratory work. Three lectures and one laboratory period per week.

Three hours, first semester.

MR. POTTER

3. PRIMARILY FOR GRADUATE STUDENTS

30. RESEARCH. Original investigation of approved subjects, with conferences and reports, in the fields of General Biology, or General Physiology. Prerequisites are at least six semesters of Biology, Chemistry 11, Physics 11 or 112 and Mathematics 11 or 18, or their equivalents.

Hours and credits to be arranged.

PROFESSOR COLE

31. RESEARCH. A course similar to 30 in the fields of Plant Morphology, Physiology or Evolution.

MR. POTTER

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSISTANT
PROFESSOR BULLOCK

The instruction offered in Chemistry falls into two main groups:

First, courses intended primarily for undergraduates. These are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

UNDERGRADUATE WORK

Students who expect to make Chemistry a profession should *major* in Chemistry and should either take a *minor* in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. Courses 11, 13, 15 and 110 are essential. Courses 14, 18, and 216 should be included, if possible. In fact, the subject of Physical Chemistry, course 18, is even now required for admission to some of the medical schools and is almost equally essential with the courses before mentioned. Attention is called to the statement regarding premedical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 28.

GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a

subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires equally a thorough familiarity with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

The degree of Master of Arts is the only advanced degree granted.

All students registered for the advanced degree are expected to devote not less than thirty hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic, and physical Chemistry.

Graduate scholarships are available for students in this department.

COURSES IN CHEMISTRY

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL CHEMISTRY. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the

fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen.

Three hours, through the year. M. W. F., 11; M., 2.

PROFESSOR MERIGOLD

12. ELEMENTARY CHEMISTRY. Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to Course 11 as preparation for advanced courses.

Open to Freshmen.

Three hours, through the year. Tu. Thu. S., 9; W., 2.

ASSISTANT PROFESSOR BULLOCK

13. QUALITATIVE ANALYSIS. Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

Three hours, through the year. Tu. F., 2.

PROFESSOR WARREN

14. QUANTITATIVE ANALYSIS. Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

Three hours, through the year. Tu. Th., 3:30.

PROFESSOR MERIGOLD

15. ORGANIC CHEMISTRY. Systematic study of the compounds of carbon and their applications to the arts. Three lectures per week. Open to all who have taken course 11 or its equivalent.

Three hours, through the year. M. W. F., 8.

PROFESSOR WARREN

18. PHYSICAL CHEMISTRY. Two lectures and three hours of laboratory a week, introducing the student to the principal

chapters of modern chemical theory. To be admitted to this course, students must have passed Chemistry 11 and 14 and Physics 11. A knowledge of organic chemistry and calculus is desirable.

Three hours, through the year. W. F., 9; F., 2.

ASSISTANT PROFESSOR BULLOCK

110. ORGANIC SYNTHESIS AND ANALYSIS. Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th., 2.

PROFESSOR WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

212b. HISTORY OF CHEMISTRY. This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 11 and 15 or equivalent courses.

Three hours, second semester. Tu. Th., 11.

PROFESSOR MERIGOLD

214. ADVANCED QUANTITATIVE ANALYSIS (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who intend to study Medicine. The laboratory work will be varied, if desired to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week.

Three hours, through the year. Tu. Th., 2.

PROFESSOR MERIGOLD

215. ADVANCED ORGANIC SYNTHESIS. In this laboratory course, newer methods of preparation are studied, and an original investigation is initiated.

Three hours, through the year. M. Th., 2.

PROFESSOR WARREN

216. JOURNAL READING. Practice in the use of current chemical literature. Assignment of journals for report and discussion.

Two hours, through the year. Tu. F., 4.

PROFESSOR WARREN

3. PRIMARILY FOR GRADUATE STUDENTS

*Physical **

31. ADVANCED INORGANIC CHEMISTRY. Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

Twice a week, through the year, with laboratory work.

Not given in 1926-27. PROFESSOR MERIGOLD

32. ADVANCED THEORETICAL CHEMISTRY. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of the Phase Rule and the determination of the free energy of chemical reactions.

Three hours, through the year. Tu. Th. F., 9.

PROFESSOR MERIGOLD

33. ADVANCED ORGANIC CHEMISTRY. Conferences are held at which the fundamental conceptions and problems of organic chemistry are dealt with in a systematic manner. Current literature, applicable to the subjects under discussion, is reviewed.

Twice a week, through the year. M. F., 11.

PROFESSOR WARREN

35b. SEMINAR. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Chem 31 in 1926-27 was given as Adv. Physical Chemistry. Written statement by B. & M. 5/7/31

Once a week, second semester. W., 5.

STAFF OF THE DEPARTMENT

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSISTANT PROFESSORS MAXWELL,
LUCAS AND WILLARD

A liberal education implies some systematic knowledge of the organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction has already begun and will continue in the immediate future as rapidly as facilities permit.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses attempt not only to give a knowledge of the science, but aim to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.

Economics and Sociology are most happily associated, whether as *major* or *minor* subjects, with work in the departments of History and International Relations, Geography and Geology in their more economic aspects, Psychology, and English. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his *minor* subject; or, one whose *major* interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b, and, under unusual circumstances, of Sociology 11. Sociology 11 is a prerequisite to further work in Sociology. Undergraduates majoring or minoring in either branch of the department are urged to take Economics 11 in their Sophomore year and Sociology 11 in their Junior year; only under unusual conditions should they postpone these introductory courses. Students who believe that they will major in the department are urged to take Economics 10 in their Freshman year.

GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate major, *i.e.*, at least twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other minor aids are available to students in the department (see catalogue, p. 51); also a limited

number of assistantships, carrying a modest stipend, are awarded to worthy students.

The attention of students in Economics and Sociology is directed also to closely allied courses offered in the Departments of Geography, Geology, History and International Relations, Mathematics and Psychology.

DEPARTMENT OF GEOGRAPHY

- 14a. Economic Geography. (Agricultural).
- 15b. Economic Geography. (Industrial).
- 25b. Industrial Geography.
- 241b. Agricultural Geography of North America.
- 243a. Economic Geography of South America.
- 263b. Geography of South American Commerce.
- 342b. Land Utilization in the United States.
- 278a. Geography of Eastern Asia.

DEPARTMENT OF GEOLOGY

- 122b. Economic Geology.

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

- 27. Latin America.

COURSES IN ECONOMICS

1. PRIMARILY FOR UNDERGRADUATES

- 10. SOCIAL SCIENCE SURVEY. A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present day industrial world, such as: mechanization of industry; specialization in production; division of labor; reliance on power; natural resources and raw materials; markets; population; migration of peoples; regional, national and international interdependence, rivalries, and conflicts; the place of the United States in the world economy; problems of national concern, such as group and "bloc" interests, immigration, racial issues, big business, the tariff; monopoly, competition, private property, inheritance; diffusion and concentration

of wealth. Indivisible course, designed especially for Freshmen; *Sophomores may take the course with reduced credit.*

Three hours, through the year. M. W. F., 9.

To be offered in 1927-28.

PROFESSOR BRANDENBURG

11. PRINCIPLES OF ECONOMICS. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Prerequisite, Sophomore standing; Economics 10 desirable.

Three hours, through the year. M. W. F., 10.

To be offered in 1927-28. ASSISTANT PROFESSOR LUCAS

13. MONEY, BANKING, AND THE BUSINESS CYCLE. The principles of money and banking, with special reference to their functions in the present economic organization of society. History of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail. Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

Three hours, through the year. M. W. F., 10.

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR MAXWELL

14a. ECONOMIC HISTORY OF THE UNITED STATES. The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, first semester. M. W. F., 9.

To be omitted 1927-28. ASSISTANT PROFESSOR MAXWELL

14b. ECONOMIC HISTORY OF WESTERN EUROPE. The development of European industry and commerce since the Industrial

Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, second semester. M. W. F., 9.

To be omitted 1927-28. ASSISTANT PROFESSOR MAXWELL

15a. PUBLIC FINANCE. A study of the principles of public expenditures, revenues, and debts with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

Three hours, first semester. M. W. F., 10.

ASSISTANT PROFESSOR MAXWELL

16b. STATISTICS. Methods of collecting, utilizing, and presenting statistical data with special reference to economic statistics. Text-book, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

Three hours, second semester. M. W. F., 10.

To be omitted 1927-28. ASSISTANT PROFESSOR MAXWELL

117a. PRINCIPLES OF ACCOUNTING. The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. A two-hour laboratory period will be required. Prerequisite, Economics 11.

Three hours, first semester. T. Th., 9; Th., 2-4.

To be omitted 1927-28. ASSISTANT PROFESSOR LUCAS

18a. BUSINESS ORGANIZATION. This course, together with Economics 117a., 18b., and 29b., is designed to give the student a two-year program of studies in the business aspects of economics. It discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. Prerequisite, Economics 11.

Three hours, first semester. M. W. F., 11.

To be offered in 1927-28. ASSISTANT PROFESSOR LUCAS

18b. BUSINESS FINANCE. This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. The relation of government to business is also considered. Prerequisites, Economics 11 and 18a.

Three hours, second semester. T. Th. S., 10.

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR LUCAS

19b. ECONOMICS OF TRANSPORTATION. History and present status of rail, water, and highway transport: theories of rate-making; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

Three hours, second semester. T. Th. S., 9.

To be omitted 1927-28. ASSISTANT PROFESSOR LUCAS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. LABOR PROBLEMS. A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the labor of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites, Economics 11 and 14a.

Three hours, through the year. M. W. F., 11.

Omitted in 1926-27. PROFESSOR BRANDENBURG

210b. ECONOMIC AND SOCIAL REFORM. The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisite, Economics 11 and 14a or 14b.

Three hours, second semester. M. W. F., 11.

To be omitted 1927-28. PROFESSOR BRANDENBURG

23b. RECENT MONETARY AND FINANCIAL PROBLEMS. This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal

European countries and the United States. The relationship between these changes and government finance will receive attention together with recent proposals for monetary reform. Reports and a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

Three hours, second semester. M. W. F., 10.

Omitted in 1926-27. ASSISTANT PROFESSOR MAXWELL

25b. PROBLEMS IN PUBLIC FINANCE. Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

Three hours, second semester. M. W. F., 9.

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR MAXWELL

26a. BUSINESS CYCLES. This course will deal with the various theories purporting to explain the business cycle, the devices by which cyclical fluctuations can be foreseen and modified, and the effects of the cycle upon speculation, production and money markets. An historical examination of price movements and of the major crises in the United States will be attempted. Reports and a thesis will be required. Prerequisites, Economics 11 and 16b.

Not to be offered before 1928-29.

ASSISTANT PROFESSOR LUCAS

27a. INTERNATIONAL TRADE AND INTERNATIONAL FINANCE. The theory of international trade and its application to questions of commercial policy. Arguments for and against protective duties and the influence of the tariff on certain important American industries. Prerequisites, Economics 11.

Three hours, first semester. T. Th. S., 9.

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR LUCAS

27b. FOREIGN TRADE PRACTICE. A continuation of Economics 27a, with emphasis on practical problems of foreign trade. The technique of importing and exporting, foreign currencies, credits

and banking practices, national customs and laws which promote or hinder trade development, governmental policies toward foreign trade, and national monopolies. Prerequisite, Economics 27a.

Three hours, second semester. T. Th. S., 9.

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR LUCAS

29b. INVESTMENTS. The primary purpose of this course is to acquaint the student with the chief problems arising in the proper handling of investment funds. The economic theory of investments, the forms of investment securities, the requisites of sound investments, and the mechanics of investment are considered at some length. The point of view of the investing public is stressed throughout. Prerequisites, Economics 11 and either Economics 17a or 18a.

Three hours, second semester. T. Th. S., 10.

Not to be offered before 1928-29.

ASSISTANT PROFESSOR LUCAS

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL ECONOMIC POLICIES.. National tariff policies or other commercial restrictions with the international problems arising therefrom; national, private, or public establishments for the promotion of foreign trade; banking and credit facilities as factors in foreign trade; commercial treaties; navigation laws and general maritime policies of important commercial nations.

Two hours, through the year. M., 7-9.

To be offered in 1927-28.

PROFESSOR BRANDENBURG

32a. LAND ECONOMICS.. Land Economics is a study of those social and economic relationships arising out of man's dependence on land as a factor in the production of economic goods. The course studies the economic concept of land in contrast with the geographical and legal concepts; property in land and forms of land tenure; the economic characteristics of land as contrasted with the other factors of production; costs involved in adapting land to the needs of men; rent and income from land together with an intensive study of the theory of rent as applied to various types of land; rural and urban tenancy and ownership; land taxation, land credit, land values, etc.

Three hours, first semester. M. W. F., 11.

To be omitted in 1927-28.

PROFESSOR BRANDENBURG

38a. HISTORY OF ECONOMIC THOUGHT TO THE END OF THE 18TH CENTURY. Study will be made of those periods important in the history of economic thought, starting with Greek antiquity. Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period, the contributions of the Mercantilists, the Physiocrats and Adam Smith will be estimated.

Three hours, first semester. (Hours to be arranged.)

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR MAXWELL

38b. MODERN ECONOMIC THOUGHT. The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

Three hours, second semester. (Hours to be arranged.)

Omitted in 1926-27. To be offered in 1927-28.

ASSISTANT PROFESSOR MAXWELL

39. VALUE AND DISTRIBUTION. An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nineteenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion, in which the students are expected to take an active part. Indivisible course.

Three hours, through the year. M. F. 4-5:30.

To be omitted 1927-28.

ASSISTANT PROFESSOR MAXWELL

311. SEMINAR IN ECONOMICS AND SOCIOLOGY. Round-table meetings are held fortnightly in the evening for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on matters of general interest. All graduate students in the Depart-

ment are expected to attend. Seniors *majoring* in Economics and Sociology are urged to do so.

Second and fourth Thursdays of each month at 7:30.

To be offered in 1927-28.

**ALL MEMBERS OF THE STAFF PARTICIPATE
COURSES IN SOCIOLOGY**

1. PRIMARILY FOR UNDERGRADUATES (See also Economics 10)

11. INTRODUCTION TO SOCIOLOGY. This course will afford familiarity with the materials of Sociology, knowledge of the scope of Social Science, and an insight into methods of studying society. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Prerequisite, Junior standing. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology. Indivisible course.

Three hours, through the year. T. Th. S., 8.

To be offered in 1927-28. ASSISTANT PROFESSOR WILLARD

2. PRIMARILY FOR GRADUATES AND ADVANCED UNDERGRADUATES

(See also Economics 210b and Economics 22)

23a. PRINCIPLES OF SOCIAL WORK. A review of the special fields of social work; standards of professional competency in each; curricula and methods of training in social work; the socialization of professions and occupations and their contributions to social work; the application of science to the fields of social work; problems and projects for the study of social work by the "case" method. The local field of social work will supply the laboratory materials for the course. To be offered 1928-29 and alternate years thereafter. Prerequisite, Sociology 11.

Three hours, first semester. M., 4-6; T., 5.

Not to be offered 1927-28. ASSISTANT PROFESSOR WILLARD

23b. ORGANIZATION AND ADMINISTRATION OF SOCIAL WORK. This course offers a survey of the fields of both volunteer and public social work; the history, services, organization, and administration of agencies in each; a study of some of the recent programs of volunteer associations; relations of public and private effort;

all based upon a summary of the social problems faced by welfare agencies. It includes problems of social policy and administrative efficiency in the control, supervision, coordination, standardization, and development of public and volunteer work. Local institutions and agencies will supply the laboratory materials for this course. Prerequisite, Sociology 23a.

Three hours, second semester. M., 4-6; Th., 2-3.

ASSISTANT PROFESSOR WILLARD

25. EDUCATIONAL SOCIOLOGY. The major content of this course will be: social principles of education; movements for the reconstruction of the curriculum; socialization of administration and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11. To be offered 1927-28 and alternate years thereafter.

Three hours, through the year. T. Th. S., 10.

Omitted in 1926-27.

ASSISTANT PROFESSOR WILLARD

27. REGIONAL SOCIOLOGY. A survey and analysis of the community (city and county) of Worcester including sociological interpretations of the life of the people, their institutions and industries. Special inquiries into particular community problems. Original field studies required. Prerequisite, Sociology 11. Divisible course, three hours, through the year. To be offered 1927-28 and alternate years thereafter.

Omitted in 1926-27.

Hours to be arranged.

ASSISTANT PROFESSOR WILLARD

28. POPULATION PROBLEMS. A review of the biological theories of society; modes of limitation and selection of population; vital statistics and population trends; a survey of resources for the support of population; past and prospective modes of control; influence of selective factors on welfare; problems of race, family, and general progress associated with population changes. Prerequisite, Sociology 11. To be offered in 1928-29, and alternate years thereafter.

ASSISTANT PROFESSOR WILLARD

3. PRIMARILY FOR GRADUATES (See also Economics 311)

31. SEMINAR IN SOCIAL WORK. Intended for specially qualified graduate students and those in responsible social work positions in the community. The seminar will be devoted to problems of family welfare and community work. The exact content of the course is determined from year to year by the major interests, abilities, and the training and experience of students electing. Prerequisites, graduate standing or equivalent experience in practical work, to be determined by conference with the instructor. One to three hours, through the year.

Two hours, through the year. F. 4-6.

To be offered in 1927-28. ASSISTANT PROFESSOR WILLARD

JOINT SEMINAR

The Departments of Economics and Sociology, of Geography, of History and International Relations collaborate in the direction of this seminar. During each semester, an intensive study will be made of the economic, sociological, geographical, and political problems of some selected region or country. The chief purposes of the joint seminar are: (a) to obtain a comprehensive and unified view of the regional or national problems involved; (b) to give to the student in each of the several departments some familiarity with the materials and methods of study in the closely related departments. The Faculty and Graduate groups of the departments concerned participate in the seminar.

Hours to be arranged.

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD,* MR. BAKER

Prescribed work in English consists of English 11, required of all Freshmen, and six semester hours in English literature, or English 14 and 3 semester hours of English literature, required of all students, to be completed by the end of the junior year. English 14 is required of all Sophomores who have not attained high standing in English 11. A *major* in English consists of twenty-four semester hours, including English 11; a *minor*, of eighteen semester hours, including English 11.

*Absent on leave, second semester 1926-27.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department for the best undergraduate verse. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

1. PRIMARILY FOR UNDERGRADUATES

11. ENGLISH COMPOSITION. The course aims through constant practice in composition and the reading of literature to give the student greater facility in written expression.

Required of Freshmen.

Three hours, through the year. T. Th. S., 8 and 9, and M. W. F., 10. PROFESSOR DODD AND MR. BAKER

12a. (1926-27). PUBLIC SPEAKING. TYPES OF SPEECH. Theory and practice in composition and delivery of various forms of extemporaneous address.

Three hours, first semester. W. F., 12, and conference.

To be offered as 12b in 1927-28.—English 12a (1927-28) prerequisite. MR. BAKER

12a. (1927-28). VOICE AND READING. Development of the public voice and the conversational tone, with special drill for individual difficulties. Expressive study of description and narration, lyric and dramatic poetry.

Open to Freshmen.

Three hours, first semester. W. F., 12 and a third hour to be arranged. MR. BAKER

13b. SHAKESPEARE. A general survey of Shakespeare's works, including the reading and class discussion of twenty plays.

Three hours, second semester. M. W. F., 10. PROFESSOR AMES

14a. ENGLISH COMPOSITION. A course in expository writing, required of all Sophomores not exempted by high standing in English 11.

Three hours, first semester. T. Th. S., 10 and 11. MR. BAKER

16b. ENGLISH COMPOSITION. Short themes and longer bi-weekly themes in exposition and narrative. Open to students who have attained high standing in English 11 or English 14a.

Three hours, second semester. M. W. F., 11. MR. BAKER

18b. THE BIBLE. This course aims to stimulate an intelligent appreciation of the Bible as literature. It consists of an interpretation chiefly of the Old Testament, its history and epic, poetry and oratory, philosophy and prophecy.

Three hours, second semester. Tu. Th. S., 11.

Omitted in 1926-27.

PROFESSOR AMES

19a. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY. Readings from Addison, Steele, Defoe, Swift, Pope, Fielding, Sterne, Johnson, Boswell, Chesterfield, Walpole, Goldsmith, Burke, Burns.

Three hours, first semester. M. W. F., 10.

PROFESSOR AMES

110a. NINETEENTH CENTURY POETRY. A brief study of the works of Tennyson and Browning, with collateral reading in other poets of the nineteenth century.

Three hours, first semester. M. W. F., 10.

Omitted in 1926-27.

PROFESSOR AMES

111. AMERICAN LITERATURE. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

PROFESSOR AMES

112. THE NINETEENTH CENTURY ESSAY. Among the essayists read are Lamb, De Quincey, Macaulay, Carlyle, Emerson, Thoreau, Mill, Ruskin, Arnold, Newman, Pater, Huxley, John Fiske. Opportunity is given for appropriate collateral reading in fiction and poetry and in essayists of the present day. The course may be elected for the year or for the first semester only.

Three hours, through the year. M. W. F., 11.

PROFESSOR AMES

113a. MODERN DRAMA IN ENGLISH. A study of contemporary English and Continental dramatists.

Open to Freshmen with the approval of the instructor.

Three hours, first semester. Tu. Th. S., 10.

Omitted in 1926-27.

PROFESSOR DODD

114a. ELIZABETHAN DRAMA. A study of the plays written by Shakespeare's distinguished contemporaries.

Three hours, first semester. M. W. F., 9.

Omitted in 1926-27, and to be omitted in 1927-28.

PROFESSOR DODD

121a. BIOGRAPHY AND LETTERS. A study of the biography, autobiography and correspondence of distinguished authors, together with painters and sculptors, from the eighteenth century to the present day.

Three hours, first semester. Tu. Th. S., 10.

Omitted in 1926-27, and to be omitted in 1927-28.

PROFESSOR DODD

122a. MODERN POETRY. A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it, opportunity is afforded for original verse composition.

Open to Freshmen with the approval of the instructor.

Three hours, first semester. M. W. F., 9.

To be offered the second semester of 1927-28. PROFESSOR DODD

123b. THE VICTORIAN NOVEL.

Open to Freshmen with the approval of the instructor.

Three hours, second semester. M. W. F., 9.

Omitted in 1926-27, and to be omitted in 1927-28.

PROFESSOR DODD

124a. AMERICAN DRAMA. A study of the American drama from colonial times to the present day.

Open to Freshmen with the approval of the instructor.

Three hours, first semester. Tu. Th. S., 10.

Omitted in 1926-27, and to be omitted in 1927-28.

PROFESSOR DODD

125b. THE SHORT STORY. A study of representative short stories in English and American literature.

Open to Freshmen with the approval of the instructor.

Three hours, second semester. M. W. F., 9.

Omitted in 1926-27.

PROFESSOR DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography, on pages 58 to 73.

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES

12. GENERAL GEOLOGY. First semester. A study of the rocks which compose the earth's surface, of the physical processes which act on them, and of the land forms resultant from this modification. The structure of the earth is also studied and the practical applications indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth including the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field trip lasting one or two days may be required.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. M. W. F., 8; F., 2.

PROFESSOR LITTLE

121a. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS. A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meeting and one laboratory period weekly.

Three hours, first semester. W. F., 11 and F., 2.

PROFESSOR LITTLE

122b. ECONOMIC GEOLOGY. A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of nonmetallic deposits such as coal, petroleum, and phosphates; and deposits of metals such as iron, copper, and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

Three hours, second semester.

PROFESSOR LITTLE

Omitted in 1926-27.

DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, MR. MEYER

The Department of German provides the necessary courses for those who wish to take German in partial satisfaction of the general requirement in foreign language (see page 45), and, through the alternation in successive years of the courses beyond the second year, which are open to men who have had either two or three years of German in college, provides opportunity also for those who wish to take this language as a major. A major in German consists of at least twenty-four semester hours selected from the courses announced here.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirement of a course of second year college grade in foreign language. A full year course or two half-courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of three years' credit in some one foreign language.

COURSES IN GERMAN

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY GERMAN. Drill in pronunciation and grammar; composition; reading of easy prose.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9 and 12.

MR. MEYER

12. SECOND YEAR GERMAN. Review of grammar, with composition; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

Three hours, through the year. T. Th. S., 9 and 12.

PROFESSOR RANDOLPH

13a. ADVANCED READING AND COMPOSITION. The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The third meeting is devoted to German composition.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, first semester. T. Th. S., 11.

14. INTRODUCTION TO THE CLASSIC AUTHORS. Lessing, *Mina von Barnhelm*, *Emilia Galotti*; Schiller, *Wilhelm Tell*, *Maria Stuart*. Lectures, discussions and collateral reading dealing with the lives, writings and influence of the authors studied.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. T. Th. S., 11.

Omitted in 1926-27.

PROFESSOR RANDOLPH

16b. SCIENTIFIC GERMAN. Lassar-Cohn, *Die Chemie im täglichen Leben*, and Greenfield's *Technical and Scientific German* are employed as texts. The course is designed especially for men *majoring* in science, but the subject matter includes much of interest to the casual student. Prerequisite, German 12 or its equivalent.

Open to Freshmen.

Three hours, second semester. Tu., 10; W. F., 12.

PROFESSOR RANDOLPH

17b. GRILLPARZER AND HEBBEL. German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, second semester. T. Th. S., 11.

PROFESSOR RANDOLPH

18. ADVANCED READING AND CONVERSATION. The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the student with essential facts about Germany and the German people. About a third of each recitation hour is devoted to conversation in German. Open to students who have had at least three years of work in the language.

Three hours, through the year.

Omitted in 1926-27.

COURSES IN HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, PROFESSOR DENNIS*

ASSOCIATE PROFESSOR LANGER, ASSOCIATE PROFESSOR HEDGES

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

Courses 11 and 12b, primarily for Freshmen, are open to members of all classes; courses 15, 16, and 17 are open to Sophomores, Juniors and Seniors, although History 11 or its equiv-

*Absent on leave, second semester 1926-27.

For 1928-29

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C. E. Melville, Registrar

alent will normally be required as a prerequisite for courses 15 and 16.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa. Especial attention is also given to the history of the United States.

FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Antiquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequaled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. Those taking History as a *major* are advised to elect their *minor* either in Geography or in Economics.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations.

Department of Geography

- 10a. FUNDAMENTALS OF GEOGRAPHY.
- 14a. ECONOMIC GEOGRAPHY (AGRICULTURAL).
- 15b. ECONOMIC GEOGRAPHY (INDUSTRIAL).
- 102b. GEOGRAPHY OF NORTH AMERICA.
- 104b. GEOGRAPHY OF EUROPE.
- 243a. ECONOMIC GEOGRAPHY OF SOUTH AMERICA.
- 27a. GENERAL PRINCIPLES OF ANTHROPOGEOGRAPHY.
- 275a. THE GEOGRAPHY OF THE MEDITERRANEAN REGION.
- 274a. GEOGRAPHY OF NORTHWEST EUROPE.
- 278a. GEOGRAPHY OF EASTERN ASIA.

Department of Economics and Sociology

- 14a. ECONOMIC HISTORY OF WESTERN EUROPE.
- 14b. ECONOMIC HISTORY OF THE UNITED STATES.
- 17b. INTERNATIONAL TRADE AND INTERNATIONAL FINANCE.
- 31. INTERNATIONAL ECONOMIC POLICIES.

Department of Psychology

- 202. SOCIAL PSYCHOLOGY.

DEPARTMENT OF HISTORY AND
INTERNATIONAL RELATIONS

1. PRIMARILY FOR UNDERGRADUATES

11. MEDIEVAL HISTORY. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period. Indivisible course.

Open to Freshmen.

Three hours, through the year. M. W. F., 9.

PROFESSOR BLAKESLEE

12b. AMERICAN POLITICAL PROBLEMS. This is not a descriptive course in government, but rather an attempt to orientate the

student in history and the social sciences through the medium of a presentation of some of the more pressing problems of present-day American life. Among the problems to be discussed are the history and principles of American political parties, the relation of the President and Congress, the Judiciary, immigration, the Negro, government control of industrial relations, civil liberty, international relations and the outlawry of war.

Designed especially for Freshmen, but also open to other students.

Three hours, second semester. Tu. Th. S., 10.

ASSOCIATE PROFESSOR HEDGES

Omitted in 1926-27.

15a. HISTORY OF ENGLAND FROM THE 15TH CENTURY TO THE PRESENT. A general course open to Sophomores, Juniors and Seniors. Lectures, textbook, collateral reading, and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

Three hours, through the year. M. W. F., 9.

PROFESSOR DENNIS

Given in the first semester only of 1926-27. Usually given through the year.

16. EUROPE SINCE 1815. A general introductory survey of the history of continental Europe from the end of the Napoleonic period to the present time. The lectures will cover the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on the causes and course of the World War and on the present situation in Europe.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 9.

ASSOCIATE PROFESSOR LANGER

17. AMERICAN HISTORY SINCE 1783. After a brief survey of the colonial beginnings of American History and the American Revolution, the course will treat carefully the period since 1783.

Emphasis will be placed upon the newer points of view in the study and writing of American History.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 11.

ASSOCIATE PROFESSOR HEDGES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20. A SURVEY OF INTERNATIONAL RELATIONS. The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, economic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

Two hours, through the year. PROFESSOR BLAKESLEE

New course, not to be offered before 1928-29.

21b. SELECTED TOPICS IN MODERN DIPLOMATIC HISTORY. Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

Two hours, second semester. M. W., 11. PROFESSOR DENNIS
Omitted in 1926-27.

22. THE PACIFIC AND THE FAR EAST. The course deals especially with Japan, China, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

Three hours, through the year. M. W. F., 10.

PROFESSOR BLAKESLEE

23. CENTRAL EUROPE IN THE 19TH CENTURY. This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity is taken up in detail. The second semester is devoted to the treatment of German supremacy after 1870, to the economic development of

the German Empire, and to the national movements as well as to the foreign policy of Austria-Hungary. Special attention is given to the present situation and problems of Central Europe.

Three hours, through the year. Tu. Th. S., 10.

ASSOCIATE PROFESSOR LANGER

Omitted in 1926-27.

24. THE HISTORY OF FRANCE AND THE LATIN STATES OF EUROPE IN THE NINETEENTH CENTURY. The general history of France, Italy and Spain, since the end of the Napoleonic Wars. The course will include the constitutional movement in France and Spain, the story of the Italian Risorgimento, the rise of the second French colonial Empire and the Italian colonial system, the industrialization of France and Italy, and finally the general Mediterranean questions as they were affected by the World War and by the peace settlement. The course presupposes a general knowledge of the history of the nineteenth century such as may be obtained from History 16.

Three hours, through the year. Tu. Th. S., 10.

Omitted in 1926-27.

ASSOCIATE PROFESSOR LANGER

25a. BRITISH INDIA. A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

Two hours, first semester. M. W., 4. PROFESSOR DENNIS

Omitted in 1926-27.

26a. NAPOLEON BONAPARTE. The career of Napoleon, with emphasis upon international relations, including colonial policy, and the influence of Napoleon on world politics.

Two hours, first semester. M. W., 4. PROFESSOR DENNIS

To be omitted in 1927-28.

27. LATIN AMERICA. A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis

is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

Three hours, through the year. M. W. F., 10.

Omitted in 1926-27.

PROFESSOR BLAKESLEE

28b. THE RECENT HISTORY OF THE BRITISH EMPIRE. An analysis of the British Imperial Possessions, emphasizing the developments and problems of the last quarter of a century.

Two hours, first semester. M. W., 11. PROFESSOR DENNIS

Omitted in 1926-27.

29. RUSSIA AND THE NEAR EAST IN THE 19TH CENTURY. The aim of this course is not only to trace the development of Russia's policy in relation to the Near East Question, but to study the general problem of the decline of the Ottoman Empire and the rise of the Balkan States, as well as the growth of the revolutionary movement in Russia. The course of events since 1914—the Revolution and the Bolshevik régime in Russia, and the recent National revival in Turkey, will be particularly emphasized.

Three hours, through the year. Tu. Th. S., 10.

ASSOCIATE PROFESSOR LANGER

211a. THE HISTORICAL GEOGRAPHY OF THE UNITED STATES. The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

Three hours, first semester. M. W. F., 11.

Omitted in 1926-27.

ASSOCIATE PROFESSOR HEDGES

212. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. This course will consist of a discussion of the forces which have moulded American society from colonial times to the present, together with a presentation of the more important intellectual movements, including Puritanism, Transcendentalism, "Young America," Fundamentalism, etc.

Three hours, through the year. ASSOCIATE PROFESSOR HEDGES

New course, not to be given before 1927-28.

213. CONSTITUTIONAL HISTORY OF THE UNITED STATES. In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a thorough college course in general American History.

Three hours, through the year. Tu. Th. S., 12.

ASSOCIATE AND PROFESSOR HEDGES

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL LAW. A general course adapted for graduate students who will do a large amount of independent reading. The principles of international law are presented and then illustrated by recent and pending international controversies of a legal nature. Lectures, text books, class discussions, and the study of the important cases in standard collections.

Two hours, through the year. M. W., 3.

Omitted in 1926-27.

PROFESSOR BLAKESLEE

32. RECENT INTERNATIONAL RELATIONS OF THE UNITED STATES. A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

Two hours, through the year. M. W., 3.

PROFESSOR BLAKESLEE

321. SELECTED TOPICS IN RECENT BRITISH HISTORY. A research course based upon a study of source material. The fields of investigation will change from year to year.

Two hours, through the year. M. W., 2. PROFESSOR DENNIS
Omitted in 1926-27.

331. EUROPEAN INTERNATIONAL RELATIONS, 1878-1918. A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England, the Entente Cordiale and the diplomatic aspect of the World War are all studied.

Two hours, through the year. Tu. Th., 4.

Omitted 1926-27.

ASSOCIATE PROFESSOR LANGER

332. HISTORICAL BIBLIOGRAPHY AND CRITICISM. A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the times of Herodotus to the present day.

Two hours, through the year. Th., 4-6.

ASSOCIATE PROFESSOR LANGER

333. TOPICS IN THE RECENT AND CONTEMPORARY HISTORY OF CONTINENTAL EUROPE. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

Two hours, through the year. Th., 4-6.

Omitted in 1926-27.

ASSOCIATE PROFESSOR LANGER

341. THE UNITED STATES SINCE 1865. A synthesis of the political, social and economic forces in the development of the United States since the Civil War. The course will be developed by topics, and emphasis will be placed upon interpretation rather

than narration. A reasonable familiarity with the period will be assumed.

Two hours, through the year. Tu., 4-6.

Omitted in 1926-27.

ASSOCIATE PROFESSOR HEDGES

342. THE INFLUENCE OF WESTWARD EXPANSION IN AMERICAN DEVELOPMENT. The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

Two hours, through the year. Tu., 3-5.

ASSOCIATE PROFESSOR HEDGES

351. RESEARCH IN THE INTERNATIONAL RELATIONS OF THE UNITED STATES. PROFESSOR BLAKESLEE

352. RESEARCH IN THE INTERNATIONAL RELATIONS OF THE PACIFIC AND THE FAR EAST. PROFESSOR BLAKESLEE

353. RESEARCH IN THE HISTORY AND INTERNATIONAL RELATIONS OF THE BRITISH EMPIRE. PROFESSOR DENNIS

354. RESEARCH IN THE HISTORY AND INTERNATIONAL RELATIONS OF CONTINENTAL EUROPE. ASSOCIATE PROFESSOR LANGER

355. RESEARCH IN THE POLITICAL AND ECONOMIC HISTORY OF THE UNITED STATES. ASSOCIATE PROFESSOR HEDGES

36. SEMINAR. The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

In studying the problems arising out of the war the Seminar is fortunate in having at hand the excellent war collection of the University Library, one of the largest in the country, which already numbers between seven and eight thousand volumes.

Weekly, through the year. Tu., 7.

PROFESSORS BLAKESLEE, DENNIS, LANGER AND HEDGES

DEPARTMENT OF MATHEMATICS

PROFESSOR WILLIAMS, ASSOCIATE PROFESSOR MELVILLE*
ASSISTANT PROFESSOR SMITH

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced work in Mathematics.

A *major* in Mathematics consists of twenty-four semester hours, including courses 12, 13 and 14; a *minor* consists of eighteen semester hours, including course 12.

Mathematics is required of all Freshmen and for them, there are available three courses, (Nos. 1, 10 and 11) suited to the preparation of the students.

MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics.

The Department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

COURSES IN MATHEMATICS

1. PRIMARILY FOR UNDERGRADUATES

ELEMENTARY COURSE. For students who enter with only two units of Mathematics. Review of essentials in Algebra and Geometry, with emphasis upon the understanding of relationships, during first semester, and topics in trigonometry, analytic geometry and elements of calculus, in the second semester. Prepares for course 11.

Three hours, through the year. Two sections, T. Th. S., 8.;
M. W. F., 10. ASSISTANT PROFESSOR SMITH

10. INTERMEDIATE COURSE. For students who have more than

*Absent on leave, second semester 1926-27.

two units of Mathematics and do not expect to major in Mathematics or Physics. Prepares to enter course 11 at second semester.

Open to Freshmen.

Three hours, through the year. M. W. F., 8.

PROFESSOR WILLIAMS AND ASSOCIATE PROFESSOR MELVILLE

11. INTRODUCTORY COURSE. For students with *major* or *minor* in Mathematics or Physics. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to Freshmen.

Three hours, through the year. M. W. F., 8.

ASSISTANT PROFESSOR SMITH

12. CALCULUS AND ANALYTIC GEOMETRY. Differential and integral calculus and Analytic Geometry, a continuation of course 11.

Three hours, through the year. M. W. F., 11.

PROFESSOR WILLIAMS

13. CALCULUS AND ANALYTIC GEOMETRY, PLANE CURVES AND THREE DIMENSIONS. A continuation of course 12 with applications to solutions of problems.

Three hours, through the year. T. Th. S., 11.

PROFESSOR WILLIAMS

14. DIFFERENTIAL EQUATIONS.

Three hours, through the year. T. Th. S., 11.

PROFESSOR WILLIAMS

15. ADVANCED MATHEMATICS. Applications of Calculus; elementary theory of functions, higher plane curves or geometry of three dimensions, to suit those who elect the course. Open to Seniors and graduate students.

Three hours, through the year. T. Th. S., 10.

PROFESSOR WILLIAMS

19. ASTRONOMY. Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial

phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110a.

Open to Freshmen.

Three hours, one semester.

Omitted in 1926-27.

PROFESSOR WILLIAMS

110. ELEMENTARY SURVEYING. Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19b.

Open to Freshmen who have had trigonometry.

Three hours, one semester.

Omitted in 1926-27.

PROFESSOR WILLIAMS

113a. MATHEMATICAL THEORY OF STATISTICS. Introductory course for graduate students in Geography, Biology, Economics and Psychology.

Three hours, first semester.

Omitted in 1926-27.

PROFESSOR WILLIAMS

DEPARTMENT OF PHYSICS

PROFESSOR GODDARD, MR. ROOPE,* MR. SLEEPER†

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts, and without which no one may hope to be considered liberally educated. The Department aims also to fit students in the minimum of time with professional preparation for Chemistry, Meteorology and allied sciences, Medicine, Engineering, and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

*Absent on leave in 1926-27 for special work at Massachusetts Institute of Technology.

†Mr. G. Roger Gladding has been employed by the Physics Department during part of the year as special assistant in radio development.

For students majoring in Physics, the following sequence of courses is recommended:

Course	Year	Prerequisites Physics	Prerequisites Mathematics
11	First	11	None
14	Second	11	None
15	Second	11	12 or 18
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12 or 18
28	Fourth	11	12

Sequences for students not *majoring* in Physics are as follows:
 Physics as a *minor*: Courses 11, 14, and one or more of 15, 17, 22, 23, 28 or 29.

Pre-medical course: Course 11.

Major in Chemistry: Courses 11, 14, and 15, 22, 23, or 28.

Major in Biology: Courses 11, 14, and 28.

Major in Meteorology and Climatology: Courses 11, 14 and 15.

GRADUATE WORK

The Department is prepared to give work leading to the degree of Master of Arts in Physics, for those planning to teach Physics, to undertake research work in industrial and government laboratories, and also as a preparation for those planning to take more advanced degrees. For this work, emphasis is placed not only upon Mathematical Physics, but also upon the undertaking of an original research problem, for which work the laboratories and library provide unusual facilities.

In case the *minor* for graduate students is in Mathematics, courses may be arranged with the Mathematics Department, or a special course on applied Mathematics may be taken under the Physics Department, based on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

COURSES IN PHYSICS

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL PHYSICS. This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio, Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law,

or Medicine, and is the natural starting point for those desiring to do further work in Physics. It may also be taken as a general science course by those not *majoring* in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The text-book is Duff's *General Physics*. Mathematics 11 or 18 is advised, but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirements of eight semester hours in Physics.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W. or Th., 2.

PROFESSOR GODDARD

13. HISTORY OF PHYSICS. A conference course on the history of the various branches of Physics.

Three hours, through the year. M. W. F., 9.

PROFESSOR GODDARD

14. MECHANICAL AND ELECTRICAL MEASUREMENTS. During the first semester this course consists of laboratory exercises in dynamics, including kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat. In the second semester, the course consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. Prerequisite Physics 11.

Three hours, through the year. Tu. W. F., 2. MR. SLEEPER

15. THERMODYNAMICS AND OPTICS. The work of the first semester is in thermodynamics, including the thermal properties of the solid, liquid, and gaseous states, and the theory of heat engines. The second semester covers geometrical and physical optics, and includes work in practical photography. The respective text-books are *Heat for Advanced Students*, Edser, and *A Treatise on Light*, Houstoun. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 9. MR. SLEEPER

17. ADVANCED GENERAL PHYSICS. Lectures and recitations.

This course is intended for those desiring a more advanced presentation of mechanics, electricity, heat, and light than is afforded by Physics 11, yet who do not desire year courses in these special subjects. Although the treatments are less complete than in courses 22, 23, and 15, a good perspective of the subject of Physics may nevertheless be gained. Mathematics 12 must be taken before or with this course. Prerequisite, Physics 11.

Three hours, through the year.

Omitted in 1926-27 and to be omitted in 1927-28.

19. LABORATORY METEOROLOGY. Daily observing, interpreting and forecasting local weather. Indoor and outdoor meteorological experiments, including testing meteorological instruments, and special observations of temperature, condensation, optical phenomena and winds. Hydrogen balloons will be used. Prerequisites: six hours of college Physics, three hours of college Mathematics, some Chemistry, and Geography 14 or its equivalent.

Three hours, through the year. M. W. F., 11.

PROFESSOR GODDARD AND ASSOCIATE PROFESSOR BROOKS
Omitted in 1926-27.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. THEORETICAL MECHANICS. This course is a systematic presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Seely and Ensign, *Analytical Mechanics for Engineers*. Mathematics 12 must be taken before or with this course.

Three hours, through the year.

PROFESSOR GODDARD

Omitted in 1926-27.

23. THEORY OF ELECTRICITY AND MAGNETISM. This course treats of the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of special importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11, and either Mathematics 11 or 18; Mathematics 12 must be taken before or

with this course. A knowledge of differential equations is advised. The text-book is Starling's *Electricity and Magnetism*.

Three hours, through the year. M. W. F., 8.

To be omitted in 1927-28.

PROFESSOR GODDARD

28. LABORATORY METHODS. A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

One hour, through the year. Th., 11.

MR. SLEEPER

29b. PHYSICS OF THE AIR. A course in theoretical meteorology based on Humphrey's *Physics of the Air*. Prerequisites: six hours of college physics, six hours of college mathematics, some chemistry, and Geography 14 or its equivalent.

Three hours, through the year.

PROFESSOR GODDARD AND ASSOCIATE PROFESSOR BROOKS

3. PRIMARILY FOR GRADUATE STUDENTS

34. ADVANCED MECHANICS. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions, together with a discussion of applications to various branches of physics. The motion of rigid bodies, the theory of moving axes, and the theory and application of the gyroscope are also treated.

Three hours, through the year. Tu. Th. F., 5.

PROFESSOR GODDARD

35. ADVANCED ELECTRICITY AND MAGNETISM. The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

Three hours, through the year. M. Tu. F., 3.

PROFESSOR GODDARD

36. THE PARTIAL DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year.

PROFESSOR GODDARD

Omitted in 1926-27.

37. RESEARCH WORK IN PHYSICS. Research work on an original problem in physics. Required of candidates for the Master's degree.

PROFESSOR GODDARD

39. RESEARCH IN METEOROLOGY.

PROFESSOR GODDARD AND ASSOCIATE PROFESSOR BROOKS

310. SEMINAR AND RESEARCH CONFERENCE. A seminar on modern theories of physics, together with conferences on current literature and on the researches in progress.

Once a week, through the year. T., 4-6.

THE STAFF OF THE DEPARTMENT

DEPARTMENT OF PSYCHOLOGY*

PROFESSOR MURCHISON, PROFESSOR HUNTER, SPECIAL LECTURER BRIDGES, ASSOCIATE PROFESSOR NAFE, ASSOCIATE PROFESSOR JONES
LABORATORY FACILITIES

The Psychological Laboratories occupy seventeen rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. The

*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

workshop contains an excellent equipment for the manufacture and repair of apparatus.

LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world, more than sixty in number, come regularly to the library.

THE G. STANLEY HALL RESEARCH FUND

This research fund, which will ultimately amount to approximately \$200,000, was left by the late G. Stanley Hall to support research in the general field of Genetic Psychology.

THE G. STANLEY HALL PROFESSORSHIP IN GENETIC PSYCHOLOGY

The Trustees of the University, in commemoration of the first President of Clark University and in recognition of the G. Stanley Hall Fund, have recently established the G. Stanley Hall Chair of Genetic Psychology in the department of psychology, and to this chair has been elected Walter S. Hunter.

THE PEDAGOGICAL SEMINARY AND JOURNAL OF GENETIC PSYCHOLOGY

This famous journal, founded by G. Stanley Hall in 1891, and devoted by him to the publication of research work in that phase of genetic psychology concerned with child behavior, is now the property of the Department of Psychology, and has been reorganized and will be conducted under the guidance of an international editorial board. Superior research reports from graduate students may be published in this journal. The Editors of this journal are Bird T. Baldwin, State University of Iowa; William H. Burnham, Clark University; Cyril Burt, University of London; Ed. Claparède, University of Geneva; Edmund S. Conklin, University of Oregon; Arnold Gesell, Yale University; William Healy, Judge Baker Foundation; Walter S. Hunter, Clark University; K. S. Lashley, Chicago; Carl Murchison, Clark University; Henri Pièron, University of Paris; Sante de Sanctis, University

of Rome; William Stern, University of Hamburg; Lewis M. Terman, Stanford University; E. L. Thorndike, Columbia University; John B. Watson, New York City; and Helen Thompson Woolley, Columbia University.

GENETIC PSYCHOLOGY MONOGRAPHS

This journal is edited and published by the *Pedagogical Seminary* and *Journal of Genetic Psychology*, and is under the supervision of the same international board of editors. Each number is a complete research, and may be contributed from any part of the world.

OTHER PSYCHOLOGICAL JOURNALS REPRESENTED IN THE DEPARTMENT

Doctor Hunter is Editor of the *Comparative Psychology Monographs*, of the *Psychological Index*, and of the *Psychological Abstracts*. Doctor Nafe is Associate Editor of the *American Journal of Psychology*.

THE G. STANLEY HALL ROOM

Dr. Robert Hall has given to the department his father's entire library, including pictures and furniture. This library has been reconstructed in one of the rooms of the psychological laboratories, and is available for inspection by former students of G. Stanley Hall and others interested. This is by no means a departmental library, but is a memorial to which may be added other subjects of significance in the life of G. Stanley Hall.

WORK IN EDUCATION

Upon the retirement of Professor William H. Burnham, the department of education was combined with the department of psychology. To the position of Associate Professor of Educational Psychology Vernon A. Jones of Columbia University has been called to Clark. He will offer undergraduate instruction in general educational problems as well as in educational psychology, and will offer graduate instruction in the theory and practice of tests and measurements.

FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

UNDERGRADUATE WORK

The department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

GRADUATE WORK

ADMISSION. Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary Psychology.

COURSES. Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with advice of the instructors concerned and with the approval of the Department. The courses in the department are planned so as to give to each student working for an advanced degree such necessary training as courses can give.

THE MASTER'S DEGREE. The general university requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

THE DOCTOR'S DEGREE. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during his final year in residence. A student will be

unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

THESES. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, to remain on file in the department.

COURSES IN PSYCHOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11a. GENERAL ELEMENTARY PSYCHOLOGY. This course is an introductory course in elementary psychology, and is prerequisite for all the following courses in the department. Textbook, lectures and collateral reading.

Three hours, first semester. M. W. F., 2.

Omitted 1926-27.

ASSOCIATE PROFESSOR NAFE

12. EXPERIMENTAL PSYCHOLOGY. This is more than an elementary course, Psychology 11 being prerequisite. The entire resources of the laboratory are available for this course. The students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 21a, 22b, 23a and 24b and to all graduate work for advanced degrees.

Three hours, through the year. M. W. F., 2.

ASSOCIATE PROFESSOR NAFE

14a. ELEMENTARY EDUCATIONAL PSYCHOLOGY. A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

Three hours, first semester. T. Th. S., 12.

ASSOCIATE PROFESSOR JONES

15b. INDIVIDUAL DIFFERENCES AND EXCEPTIONAL CHILDREN. A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright

and exceptionally dull children, and various methods past and present employed by schools in teaching such children will be examined.

Three hours, second semester. T. Th. S., 12.

ASSOCIATE PROFESSOR JONES

16a. PRINCIPLES OF EDUCATION. School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation, and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and economic conditions of the United States; American education and world citizenship.

Three hours, first semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

17b. PHILOSOPHICAL AND HISTORICAL FOUNDATIONS OF MODERN EDUCATION. By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

Three hours, second semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

200a. SYSTEMATIC PSYCHOLOGY. This course together with 201b, 203a, 204b offers a two year course in which the semester units are separable. It is a systematic study of the work that has been done in Experimental Psychology. 200a deals with vision and audition.

Three hours, first semester. M. W. F., 9.

To be omitted in 1927-28. ASSOCIATE PROFESSOR NAFE

201b. SYSTEMATIC PSYCHOLOGY. Smell, taste, touch and the image.

Three hours, second semester. M. W. F., 9.

Omitted 1926-27, to be omitted in 1927-28.

ASSOCIATE PROFESSOR NAFE

202. SOCIAL PSYCHOLOGY. A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

Two hours, through the year. Th. 4. PROFESSOR MURCHISON

203a. SYSTEMATIC PSYCHOLOGY. Affection, emotion, attention, perception and idea in their systematic aspects.

Three hours, first semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

New course, to be offered in 1927-28.

204b. SYSTEMATIC PSYCHOLOGY. The position of association, memory, imagination, thought, action and volition in systems of Psychology, especially in the Structural system. The treatment of these subjects is historical as well as systematic. Little attention is given to the application of principles.

Three hours, second semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

New course, to be offered in 1927-28.

205a. THE LEARNING PROCESS. A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

Three hours, first semester. M. W. F., 11.

PROFESSOR HUNTER

206½. ANIMAL BEHAVIOR. A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

Three hours, second semester. M. W. F., 11.

PROFESSOR HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

301a. (Listed as 302a in 1926 Catalog). SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, first semester. Tu., 11.

PROFESSOR HUNTER

*Plan for 1926-7 (See to June)
Plan ~~to be~~ to be seen regularly.*

302b. SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A continuation of the first semester Seminar, but not necessarily preceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

Two hours, second semester. Tu., 11. PROFESSOR HUNTER

303b. MECHANICS OF MENTAL DIFFERENCES. The various mental tests will be studied in their historical development, with special attention to formulation, application, and final interpretation of results.

Two hours, second semester. F., 4. PROFESSOR MURCHISON

304. JOURNAL CLUB. To be devoted to the study of selected topics in current Psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

meets each sem 1926-7

Through the year. W., 4. .. " " thereafter

PROFESSORS MURCHISON, HUNTER, NAFE AND JONES

305. RESEARCH. All students *majoring* in the Department of Psychology for advanced degrees will be expected to undertake a suitable research problem under the direction of Professors Murchison, Hunter, Nafe, or Jones.

310a. CHILD BEHAVIOR. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, first semester. F., 4. PROFESSOR MURCHISON

312. ADVANCED EXPERIMENTAL PSYCHOLOGY. Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique.

ASSOCIATE PROFESSOR NAFE

313a. ADVANCED EDUCATIONAL PSYCHOLOGY: TECHNIQUES OF QUANTITATIVE EXPERIMENTATION IN EDUCATION. The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial r; partial and multi-

ple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments.

Two hours, first semester. Saturday 9-11.

ASSOCIATE PROFESSOR JONES

314b. METHODS IN EDUCATIONAL MEASUREMENT. General trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis, and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principles and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

Two hours, second semester. Saturday, 9-11.

ASSISTANT PROFESSOR JONES

315. HISTORY OF PSYCHOLOGY. Selected topics in the history of psychology.

One hour, through the year.

PROFESSOR MURCHISON

316a. ABNORMAL PSYCHOLOGY. Class room lectures and clinical demonstrations.

Two hours, first semester.

DR. BRIDGES

317b. THE PROBLEM OF INTELLIGENCE AS MEASURED. A seminar and research course in various measurable factors involved in the intelligent act.

Two hours, second semester.

PROFESSOR MURCHISON

To be offered in 1927-28.

ADDITIONAL COURSES IN EDUCATION

The following courses in Education not under the supervision of the Department of Psychology have also been offered by other members of the faculty.

1. PRIMARILY FOR UNDERGRADUATES

EDUCATION 1a. SECONDARY EDUCATION: CLASSROOM MANAGEMENT AND PROCEDURE. The purpose of this course is to acquaint the prospective teacher with the practical problems which he will meet in the classroom and in preparation for his classroom work. Some of the topics to be studied are: the high school pupil; discipline; efficiency in the classroom; methods of the class period; and lesson plans.

Open to Juniors and Seniors and Graduate Students.

Three hours, first semester. T. Th. S., 9.

ASSISTANT PROFESSOR SMITH

EDUCATION 10b. THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS. This is a professional course for prospective teachers of Mathematics. It deals with the modern trend of teaching in this subject and with specific methods. Open to Juniors, Seniors and graduate students.

Three hours, second semester. T. Th. S., 9.

ASSISTANT PROFESSOR SMITH

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

Geography 28b. GEOGRAPHY IN EDUCATION. See page ??.

Three hours, second semester. M. W. F., 4.

Omitted in 1926-27. ASSOCIATE PROFESSOR RIDGLEY

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR ATWOOD

See the statement of the general requirement in foreign language, page 45, for all candidates for the A.B. degree.

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading ability, with at least a beginning of writing and speaking; when possible a student should take the full twelve hours of this

sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may of course be taken. Those who have completed course 14 may take 15 and 16—courses in which the literature of two important centuries is studied intensively. After course 13, 17 may be taken. Prospective teachers will take course 18b.

A *major* in Romance Languages consists of at least twenty-four semester hours selected from the courses described below; but not more than twelve semester hours in elementary courses (French 11, Italian 11, and Spanish 11), may be counted in a *major*. A typical *major* for a student who has had three years of French in the high school would include courses 13, 14, 15, and 16,—with the teachers' courses or Italian or Spanish as alternatives. Those who have had less French would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 15 or 16. The attention of students intending to *major* in Romance Languages is called to the statement concerning the required courses in Greek or Latin, on page 45.

COURSES IN FRENCH

1. PRIMARILY FOR UNDERGRADUATES

11. FOR BEGINNERS. Grammar, pronunciation, oral work, and composition, based on Cerf and Giese's *Beginning French*. Reading of easy modern French. The main purpose of the course is to develop reading ability.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9.

ASSISTANT PROFESSOR ATWOOD

12. INTERMEDIATE. Reading of modern French, with grammar, composition, pronunciation, and oral exercises. Course 12 is a continuation of course 11, and is also open to students who have had two years of high school French. Rapid review of Fraser and Squair's *Shorter French Course*. Reading from such works as Halévy's *un Mariage d'amour*, Hugo's *les Misér-*

rables, Labiche and Martin's *le Voyage de M. Perrichon*, France's *le Crime de Sylvestre Bonnard*.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 8.

ASSISTANT PROFESSOR ATWOOD

13. ADVANCED FRENCH. This course is designed to continue and supplement the language work of course 12; it is also open to students who have had three years of high school French. Since the parallel course (14) offers ample opportunity for the development of reading ability, the emphasis in this course is placed upon the spoken and written language. The major part of the early work is devoted to a careful study of pronunciation and to a very rapid review of the elements of grammar in application to oral exercises. Immediately thereafter comes a survey of grammar and syntax in Fraser and Squair's *French Grammar* (new complete edition). Oral work in everyday French is continued through the year. The later months are largely devoted to rapid reading in the French short story and play, the material being handled in French oral and written exercises as often as possible.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

ASSISTANT PROFESSOR ATWOOD

14. GENERAL VIEW OF FRENCH LITERATURE. This course offers a general introduction to French literature with the triple purpose of meeting the needs of those who wish to gain some knowledge of that literature without doing the intensive linguistic work of French 13, of supplementing the work of French 13 by wider reading in good literature, and of laying the foundation for the specialized courses in the literature of particular centuries. For students entering with the minimum preparation the only text to be read is the Vreeland and Michaud *Anthology of French Prose and Poetry* (Ginn); but all who enter with more than this minimum are expected to read collaterally along lines to which their tastes may lead them. Brief outline of the facts of French literature and discussion of literary values based upon Strachey's *Landmarks in French Literature* (Holt). This course

is open to students who have passed French 12 or who have had three years of French in the high school.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

PROFESSOR CHURCHMAN

NOTE: For admission to French 15 and 16, it is ordinarily expected that a student shall have passed French 14 with credit, but exceptionally good reading ability and a small amount of special preparation in the literature may occasionally make it possible to waive this condition.

15. LITERATURE OF THE SEVENTEENTH CENTURY. A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in Schinz and King's *Seventeenth Century French Readings* (Holt) and Vreeland and Michaud's *Anthology of French Prose and Poetry* (Ginn). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's *Histoire illustrée de la littérature française* and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classical literature, with a connected and critical knowledge of the literary history of the period. No lectures or translating, the time in the class-room being devoted to discussion and reading in the original.

Three hours, through the year. M., 4; W. F., 12.

Omitted in 1926-27.

PROFESSOR CHURCHMAN

16. LITERATURE OF THE NINETEENTH CENTURY. Historical and critical survey, with wide reading from the most significant authors of the century. The spirit, method, and plan of the work are similar to those of course 15. After a discussion of the later eighteenth century and of the work of Chateaubriand and Madame de Staël, comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of the facts and comment contained in the Abry, Audic and Crouzet *Histoire illustrée de la littérature française* and in the writings of other critics. Minor

writers as found in the Vreeland Michaud *Anthology*. Few if any lectures, and no translation. For conditions of admission to this course see note above.

Three hours, through the year. M., 4; W. F., 12.

PROFESSOR CHURCHMAN

17. ADVANCED COMPOSITION AND ORAL WORK. Designed to provide teachers and other advanced students with a ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis. Systematic study of grammar and syntax through a hasty survey of R. T. Holbrook's *Living French*, a thorough mastery of E. C. Armstrong's *Syntax of the French Verb*, and special study of selected topics by means of references to several standard authorities. Further familiarity with the spoken language is encouraged by use of the phonograph outside of class, and some special attention is given to the building of a vocabulary of common words and phrases and to systematic observation of French usage. Occasional themes in French. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

Three hours, through the year.

PROFESSOR CHURCHMAN

Omitted in 1926-27.

18b. AIMS AND METHODS OF TEACHING FRENCH, with incidental reference to German and Spanish. Lectures, collateral reading and reports on special topics. Discussions led by students in turn. This course is open to students who have passed with credit French 12, German 12, or Spanish 12, or who have done the equivalent of one of these courses. A knowledge of more than one language is desirable, but not necessary. Given in the late afternoon for the convenience of Worcester teachers.

One hour, second semester. M., 5.

PROFESSOR CHURCHMAN

Omitted in 1926-27.

COURSES IN SPANISH

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY COURSE. The Hills and Ford *First Spanish Course*. Translation of simple prose. The first purpose of the course is to develop the ability to read, but a liberal use is made

of oral and written exercises. Emphasis is divided between South America and Spain.

Divisible only in special cases with the approval of the Department.

Open to Freshmen. ASSISTANT PROFESSOR ATWOOD
Three hours, through the year. M. W. F., 10.

12. INTERMEDIATE COURSE. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Review of the language in Crawford's *First Book in Spanish*. Reading of representative masterpieces, *e.g.*, *Don Quixote* (selections), one modern novel, one play, short stories. Open to students who have passed course 11, or who have had two years of Spanish in the high school.

Open to Freshmen. PROFESSOR CHURCHMAN
Three hours, through the year. Tu. Th. S., 9.

13. THIRD YEAR SPANISH. To be given when justified by the demand. Readings from Spanish literature and further work in composition and speaking. Open to students who have passed course 12, or who have had three years of Spanish in the high school.

Open to Freshmen.
Three hours, through the year.
 Omitted in 1926-27.

COURSES IN ITALIAN

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY COURSE. The chief purpose of this course is to develop as rapidly as possible the ability to read Italian easily and accurately. As soon as a hasty survey of the elements of the language has provided the student with the necessary materials, reading is begun, and thereafter oral exercises, composition, and grammar are used chiefly as a means to greater facility in reading. Wilkins' *First Italian Book*; Grandgent's *Italian Grammar* (revised edition); Farina's *Fra le corde d'un contrabasso*; Foggazzaro's *Pereat Rochus*; *Italian Short Stories* (Wilkins and Altrocchi); Manzoni's *I promessi sposi*; possibly a play of Goldoni's. In

the second semester either the *Inferno* or the *Purgatorio* of Dante is read.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year.

PROFESSOR CHURCHMAN

Omitted in 1926-27.

Degrees Conferred

In the Calendar Year 1926

BACHELOR OF ARTS

Henry Charles Anderson	Wallace Emerson Lamb
Walter George Bassett	Bert James Loewenberg
Clyde Freeman Benner	Ferdinand John Loungway
August Anshelm Berg	Raymond George Mead
Gustaf Harry Carlson	Theodore Nicol
Charles August Choquette	Henry Miles O'Bryan (With Honor)
James Arthur Cooke	Gerim Musa Panarity
Lester Francis Crossley	Thornton Lewis Pitcher
George Alexander Dawson	William Frederick Preissel (With Honor)
Nathan Joseph Denny	Frank Jay Reid
Gordon Kingsbury Dowd	John Harold Rogers
Theodore Eugene Dumas	Jacob Yank Sachs
Elford Sturtevant Durgan (With High Honor)	Louis Varance Smith
George Nathan Epstein	James Davis Springs
Iver Waldemar Fallstrom	William Clark Stetson
William Norcross Felt	Irving Lombard Storer
John Joseph Fitzgerald	Simon Surabian
Thomas Condon Gannon	Paul Richard Swan
Francis Otto Graf	Isadore Max Tarlov
Samuel Griff	John Tashjian
Clifford Ohlin Griffith	Henry John Weber
Allan Mathews Hadley	Bester Cicero Weed
Edwin Higginbottom	

BACHELOR OF EDUCATION

Mary A. Duke	Catherine Pauline Mullaney
Sarah E. Earley	Hazel Deane Shields
Bessie Alice Merritt	Frieda Van Cleef

MASTER OF ARTS

Adolph William Aleck	Karl Duncker
Ruth Emily Baugh	John Henry Ferguson
Meredith Frederick Burrill	Gardner Patrick Henry Foley
Lillian Francis Cowdell	Frank Arthur Geldard
Charles Clarence Cowell	Leo Arthur Goldblatt
Richard Powers Doherty	George Roger Gladding
Cornelius Sylvester Donoghue	Walter Smith Hanover

Luberta Marie Harden
 Elizabeth Lilliston Hickman
 Viola Jodrey
 Donald Keller
 Charilaos G. Lagoudakis
 John Riley Liggett

Lewis Maxwell Sleeper

Maude Cottingham Martin
 Blake F. McKelvey
 Harley Porter Milstead
 Dorothy Vernon Noble
 Leonard O. Packard
 Howard G. Patchett

DOCTOR OF PHILOSOPHY

Earl Ray Casto
 Walter Elmer Ekblaw
 Olof Georg Jonasson

Max Meenes
 Satyananda Roy
 Henry Harrison Russell
 Eugene Van Cleef

SUMMARY

Bachelor or Arts	45	Master of Arts	27
Bachelor of Education	6	Doctor of Philosophy	7

13e

Wednesday Feb 1st 1927 Well College of Art & Sci

FOUNDER'S DAY EXERCISES

TUESDAY FEBRUARY 1 1927 AT ELEVEN

Music by the University Orchestra Arthur J Dann Director

Processional: On Parade Sousa

Overture: The Gypsy Queen Lochner

Founder's Day Address Some Recollections of our Founder

Louis N Wilson Litt D
Librarian Clark University

Music by the University Glee Club Dean W Hanscom Director

Pack Clouds Away Chadwick

The Lotus Flower Schumann

Fiat Lux

Conferring of Degrees Charles H Thurber Ph D

President of Board of Trustees
Clark University

Recessional by the University Orchestra Selected

CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS

George Nelson Geer

William Francis O'Halloran

CANDIDATE FOR THE DEGREE OF MASTER OF ARTS

John Lorence Page

CANDIDATE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Gragg Richards

Clark University

The Thirty-seventh Annual Commencement

JUNE 13, 1927



Order of Exercises

Processional: Pomp and Circumstance *Elgar*
CLARK UNIVERSITY ORCHESTRA

Invocation
THE REVEREND MARSHALL N. GOOLD
Pastor of Union Congregational Church

Overture: Fest *Lassen*
CLARK UNIVERSITY ORCHESTRA

Unveiling of Memorial Tablet
THE REVEREND MARSHALL N. GOOLD

The President's Annual Statement

Selection: Tres Jolie *Waldteufel*
CLARK UNIVERSITY ORCHESTRA

Conferring of Degrees

Benediction

Recessional: On Parade *Sousa*
CLARK UNIVERSITY ORCHESTRA

The audience is requested to remain seated
until the academic procession has passed out.

Candidates for the Degree of Bachelor of Arts

Stephen Beaton, Jr.
Morris Irving Bresev
Roland Benedict Civalier
Milton Wallace Corbin
Francis Lawrence DeGangi
Roger Francis Dickinson
Richard Burt Dow
George Burton Dyer
Henry Francis Eagan
John Edward Fitzgerald
Randolph Walfred Archibald
Forsberg
Robert Bruce Goeller
Clarence Henry Graham
Hyman Howard Green
Clarence Wakefield Keller

Carlton Hardy Larrabee
James Guilford Little 117.5
John Robert Moore
Emmet Thaddeus Morrill
Gordon Disbrow Porter
Martin Schaefer
Harry Bernard Sheftel
Fred Waldo Shipman
Samuel Silverman
David Eli Swartz
Osborne Bailey Tabor
Thomas Joseph Tierney
George Meier David Wolfe
Richard Ellsmore Young
Harry Zarrow

DEGREE WITH HONOR

Richard Burt Dow John Edward Fitzgerald
Hyman Howard Green

DEGREE WITH HIGH HONOR

George Meier David Wolfe Harry Zarrow

DEGREE WITH HIGHEST HONOR

Carlton Hardy Larrabee

Annual Collegiate Honors

SENIORS

FIRST HONORS

Richard Burt Dow Carlton Hardy Larrabee
Harry Zarrow

SECOND HONORS

Roger Francis Dickinson Emmet Thaddeus Morrill
Clarence Henry Graham Martin Schaefer
George Meier David Wolfe

JUNIORS

SECOND HONORS

Raymond Clark Becker George Arvid Grondahl
Hartshorn Stanley Whiting

SOPHOMORES

FIRST HONORS

Owen Norton Hillman John Philip Howard

SECOND HONORS

Everett Elven Backlin Abraham Levett
Jacob Britton Raymond Philip Shanahan
Abraham Smith

Annual Collegiate Honors

continued

FRESHMEN

FIRST HONORS

Albert Clarence Erickson

SECOND HONORS

Michael Abelsky

Edward William Brady

Robert Levine

John Howe Scott

FIFTH ANNUAL AWARD OF THE PRENTISS HOYT PRIZE IN POETRY

Divided between Kingsland Adams Coffyn, '29, for his poem "Scimitar and Softness" and Frederick Thomas Mills, '28, for his poem, "The Courage of Ten."

Candidates for the Degree of Doctor of Philosophy

Economics & Sociology

Te Ming Ku

Charles Orville Heath

Geography

Nels August Bengtson

Clyde Edwards Cooper

History & International Relations

Mary Kibbe Allen

Frank Guy Armitage

Albert Farnsworth

Curtis Hugh Morrow

Physics

Percy Martin Rooth

Psychology

Ralph Wesley Gilbert

John Riley Liggett

Robert Wallace Nafe

Candidates for the Degree of Master of Arts

Biology

Eileen Mae Miller

Bester Cicero Weed

Chemistry

Gustaf Harry Carlson

George Alexander Dawson

Iver Waldemar Fallstrom

Geography

Wallace Richards Atwood

Carleton Payne Barnes

Charles Gooze

Edna Mae Gueffroy

Edith Louise Horne

Thomas Francis Hunt

Clarence Eugene Koeppe

Ruth Esther Laidlaw

Mabel Ripley

Joseph Raymond Schwendeman

John Henry Weber

History & International Relations

Lois Alberta Bannister

Carl John Bergman

Hervey Francis Bowden

Thomas Augustine Breen

Herschel Heath

Palmer Peckham Howard

Wallace Emerson Lamb

Bert James Loewenberg

George Henry Merriam

Margaret Marion Mitchell

Mildred May Paige

Jeremiah Patrick Shalloo

Eleanor Tupper

Physics

Clyde Freeman Benner

Psychology

Dorothea Elizabeth Johannsen

Alice Hannah Peterson

Catherine Elizabeth Sullivan

Register

Names of students are grouped in two lists, I, those who registered in either semester of 1926-27 and II, those who attended the 1926 Summer School.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 27, 28, 29, 30 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; e—extension students; B—biology; Ch—Chemistry; Ec—economics and sociology; G—Geography; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterick (*) indicates that the student has withdrawn from the University prior to March 1, 1927.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abelsky, Michael	30		46½ Providence
Adams, Hobart Walker	29	Columbus, O.	9.3 Main
Ainbinder, Sol	29	Peabody	15 Spruce
Allen, Mary Kibbe, A.M.	H F	Springfield	
Allen, Winfield Gordon	30	e West Boylston	92 Hillcroft Ave.
Amidon, Dorothy A.	s		68 Sagamore Rd.
Anderson, Annette Gladys	s		400 Lincoln
Andrews, Kathleen May	s		
Antoun, Toffee Ameen	28	Shrewsbury	
*Arbo, William Charles	29		5 Allen
Armitage, Frank Guy, A.M.	H F	New London, Conn.	166 Woodland
Asher, Dorothy Virginia Mrs.	e		3 Intervale Rd.
Atwood, Robert Bruce	29	Winnetka, Ill.	35 Maywood
Atwood, Wallace Richards, B.S.	G S		160 Woodland
Bach, Engelbert	29	Newark, N. J.	7 Gardner Terr.
Backlin, Everett Eleven	29		9 Euclid Ave.
Bancroft, Grace L.	e		317 Burncoat
Bangs, Nesbit Hoyt, A.M.	s	Cambridge	
Bannister, Lois Alberta, A.B.	H S	Webster	2 Woodbine
*Barber, Gus Nichols	s		15 Gates
Barber, William Perry	30	Putnam, Conn.	Estabrook Hall
Barnes, Carleton Payne, B.S.	G S	Syracuse, N. Y.	
Beaton, Stephen, Jr.	27	Millbury	
Becker, Raymond Carl	28		560 Chandler
Bedell, Roger Dudley	30	East Greenbush, N. Y.	Estabrook Hall
Belanger, Leonard Joseph	29	Brooklyn, N. Y.	934 Main
Bengtson, Nels August, A.M.	G F	Lincoln, Neb.	166 Woodland
Benner, Clyde Freeman, A.B.	Ph S	Waldoboro, Me.	78 Florence
*Bennett, James Stephen	30	Wakefield	Estabrook Hall
Bergman, Carl John, A.B.	H S		80 Perry Ave.
Bigelow, Roger Perry	29		119 Forest
Bland, Isadore Chester	29	Hartford, Conn.	14 Tirrell
Bloom, William Olof, Jr.	28	Boylston	
Blossom, Walter Dunbar	e	Warren	
Boson, Svea	e		34 Orne
Bowden, Hervey Francis, A.B.	H S	Brooks, Me.	6½ King
Boyle, Harry A.	e		18 Sturgis
*Boyle, Thomas Edward, A.B.	s		57 Sagamore Rd.
Brady, Edward William	30	Leominster	
Brady, Mrs. Marie Le Guern	e	Spencer	
Brandenburg, William Johnston	29		173 Woodland
Breser, Morris Irving	27	Norwalk, Conn.	981 Main
Briggs, Reginald Arthur	29		7 Dewey
Brigham, Ruth M.	e		55 May
Brinck, Donald Monty	29	West Boylston	
Brissette, Armand J., Jr.	30	Webster	
Britton, Jacob	29	Leominster	
Brown, Anthony Francis	29		311 Plantation
Brown, Leighton	28	Groton, Conn.	Estabrook Hall
Bryden, James Davenport, Jr., A.M.	Ps F	Kingston, Pa.	13 Hammond
Bryant, Nellie J.	e		165 Holden
Burstein, Isadore	30		52 South
Butler, Richard Wyman	29		21 Preston
Callahan, Mary Monica	s		93 Elm
Carlson, Albert Sigurd	29		137 A Eastern Ave.
Carlson, C. William, A.M.	Ps g		2 Wilkinson
Carlson, Gustaf Harry, A.B.	Ch S		22 Stockholm
Carver, Wells Elmer	28	Ludlow	35 Maywood
Center, Henry Allen	30	Shushan, N. Y.	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Chase, George Bryant	28	Stratford, Conn.	973 Main
Chase, Matthew Irving	30	Farnumsville	
*Chatterjee, Manmath Nath, A.M.	H F	Yellow Springs, O.	Estabrook Hall
Cheka, Joseph Sandor	30	Darien, Conn.	24 Beaver
Cheng, David H. Y., M.S.	Ec S	Foochow, China	10 Lancaster
Christensen, Thomas Edison	30		148 Vernon
Christenson, Mildred Elizabeth	s		27 Florence
Ciano, Michael Antonio	28	Waterbury, Conn.	
Civalier, Roland	27	Auburn	Estabrook Hall
Clark, Marshall Gorham	30	Brighton, Me.	Estabrook Hall
Clemons, Charles Murray	30	Stamford, Conn.	35 Maywood
Coffyn, Kingsland Adams	29	New York, N. Y.	866 Southbridge
Colebrook, Ralph Leslie	30		11 Isabella
Collamore, Edna Augusta, B.Ed.	e		5 Louise
Conlon, James E., B.B.A.	e		13 Benefit
Conner, Jennie Eva, B.Ed.	e	Southbridge	2 Stockton
Corbett, Katherine Estelle, A.B.	Ps g		18 Hermon
Corbin, Milton Wallace	27		156 Vernon
Costello, Florence P.	e		301 Cambridge
Coty, Everett William	28		52 Uxbridge
Couming, Matthew J., A.B.	e		5 Taft
Cove, Joseph Edward	28		973 Main
Crosby, Kenneth Howard	29	Fall River	4 Mt. Pleasant
Cross, Hartley Williams, A.M.	H F	Granville	130 Grandview Ave.
Crossley, Lester Francis, A.B.	e		175 Highland
Crowley, John Joseph	s		1 Estabrook Hall
Crowley, Paul Merrick	s	New Bedford	1 Lucian
Curley, Elizabeth G.	e		941 Main
Curnow, Irene Jean, Ph.D.	e		21 Shaffner
Currie, Marion C.	29		15 Edward
Dahl, Randle Edwin	e		6 Mendon
Daley, Katherine M.	e		34 Jaques Ave.
Davis, Ella G.	Ch S		7 Cottage
Dawson, George Alexander, A.B.	29	Whitinsville	5 West Oberlin
Deeks, William Thomas	27	West Haven, Conn.	10 Farnum
DeGangi, Francis Lawrence	e		140 Austin
De La Mater, Emeline L.	s		24 Maywood
Denton, Joshua William	28	Warren	120 Providence
Dexter, William Albert	s		7 Hancock
Diamond, Joseph	29	Lawrence	12 Bay State Rd.
Di Burro, Carmine Antonio Peter	27	Spencer	87 Florence
Dickinson, Roger Francis	30		3 Kingsbury
Dobie, Albert Joseph	29	Wilton, N. H.	161 Institute Rd.
Doherty, Alfred John	s		31 Grand
Domingos, Sarah Jo	s		84 Birch
Donahue, Michael Aloysius	e		65 Stafford
Donnelly, Mary T.	27	Framingham	7 Hancock
Dow, Richard Burt	27		1 Freehand Terr.
Duesel, Bernard Rock	29		Estabrook Hall
Dyer, George Burton	27		Estabrook Hall
Eagan, Henry Francis	29		Estabrook Hall
Edwards, Magnus William	29	Brooklyn, N. Y.	973 Main
Eliason, Chester Gabriel	30	No. Haven, Conn.	120 Rodney
Engle, Kline Albert	30	Williamsport, Pa.	15 Forestdale Rd.
Enos, Bertram Louis	29	Winthrop	14 Kingsbury
Erickson, Albert Clarence	30		21 Thenius
Erickson, Franklin Carl	28		6 Beaverbrook Py.
Ewert, P. Harry, A.M.	Ps F	Mt. Lake, Minn.	7 Hancock
Fallstrom, Iver Waldemar, A.B.	Ch S		7 Schussler Rd.
Farrell, Albert LeRoy	29		Estabrook Hall
Farrell, Wilfred Raphael	28	Watertown, Conn.	4 West Oberlin
Feldman, Harry, B.S.	s	No. Brookfield	207 Park Ave.
Felt, Charles Winchester	29	Northboro	10 Montrose
Fisher, George Carroll	30	Brockton	43 Sterling
Fitzgerald, John Edward, Jr.	27	Fitchburg	148 Eastern Ave.
Fitzgerald, Leonore	e		166 Woodland
*Foley, Thomas Hoppin, A.B.	s		17 King
Ford, Anna, B.S.	s		Estabrook Hall
Forsberg, Randolph Walfred Archibald	27		11 Princeton
Forsythe, Marion B.	s	Waddington, N. Y.	19 Ledge
Foscue, Edwin Jay, M.S.	G F	Dallas, Texas	42 Prescott
Foster, Edward Clark	30	Haydenville	Estabrook Hall
Foxall, Thomas, A.B.	s	Shrewsbury	
Foxhall, Harry	29		
Freedberg, Jacob	28		
*Fryer, Francis Lawrence	29		
Gagne, Raymond Franklin	30	North Andover	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Gardner, Gerald McCracken	30	Belvidere, N. J.	Estabrook Hall
Gardner, John Waite	29	East Orange, N. J.	
Gatto, Vincent, LL.B.	G S	Milford, N. H.	
Gaucher, Adrian Armand	29	Southbridge	
Geary, Donald James	29	Leominster	
*Geer, Gordon Nelson, A.B.	27		Gardner Terr.
Geldard, Frank Arthur, A.M.	Ps F		
Gervais, Roland Edmond	28		12 Leeds
Gilbert, Ralph Wesley, A.M.	Ps F	Leominster	39 Stoneland Rd.
Ginn, Addie M.	e		17 Hampden
Gissen, Max	30	Brattleboro, Vt.	4 Hancock
Goeller, Robert Bruce	27	Garden City, N. Y.	26 Haigood Rd.
Goldberg, Milton Harold	30		35 Maywood
Goldman, Nathan	29		27 Marion Ave.
Goldstein, Samuel	30		9 Lamar Ave.
Gooze, Charles, A.B.	G S	Detroit, Mich.	6 Salford
Goss, George Lee	28		Estabrook Hall
Grace, Charles	29		15 Trumbell Sq.
Grace, Sydney	29		61 Dorchester
Graham, Clarence Henry	27		30 South Lenox
*Grandone, Joseph	30	Oxford	14 Lewis
Green, Hyman Howard	27	So. Norwalk, Conn.	
Grondahl, George Arvid	28	Maynard	981 Main
Gueffroy, Edna Mae, B.Ed.	G S	Bloomington, Ill.	27 Florence
Haberman, James Charles	29	Holyoke	2 Woodbine
Harden, Luba Maria, A.M.	Ps F	Charleston, Wash.	14 Tirrell
Harding, Kenneth Clarke	e		22 Downing
Hargrove, Theodore Lincoln	29	Grafton	457 Park Ave.
Harrington, Wayne Everett	29	East Haven, Conn.	
*Hart, Helen May, A.B.	H S	Huntington, W. Va.	Estabrook Hall
Hartman, Raymond Porter	29		
Harwood, Ernest Monroe, Jr.	30	New Britain, Conn.	14 Larch
Hastings, Walter, Jr.	29	Webster	Estabrook Hall
Healy, Katherine R.	H S	Hazelton, Kansas	10 Silver
Heath, Herschel, A.B.	27		
Hickey, Thomas Joseph, Jr.	s	Millbury	36 Kingsbury
Higginbottom, George	29	Edgartown	138 Woodland
Hillman, Owen Norton	H F	Athens, Ga.	54 Upsala
Hodgson, Roberta, A.M.	30	Charlton	49 Florence
Hollis, Walter	29	Pearl River, N. Y.	10 Silver
*Hopper, Arthur Decker	G S	Millbury	
Horne, Edith Louise, A.B.	28	Millbury	
*Horne, Roger Bigelow	e		4 Clement
Houston, Mrs. Athlein Barkley, A.B.	s	Hubbardston	4 Clement
Houston, Samuel Craig	29		
Howard, John Philip	e	Peking, China	34 Hudson
Howe, Florence E.	e	Meriden, Conn.	941 Main
Huang, Yu Jung, A.B.	29		Estabrook Hall
Hubbard, Arthur Dexter	28	Bellingham, Wash.	34 Clark
Hughes, Hartwell M. T.	G S	Meriden, Conn.	19 Clement
Hunt, Thomas Francis, A.B.	30		Estabrook Hall
Jacobs, David Harold	e	Ithaca, N. Y.	70 Maywood
Jenkins, Florence S.	Ps S		4 Downing
Johanssen, Dorothea Elizabeth, A.B.	H g		21 Stanton
Johnson, Emil, A.M.	e		9 Falmouth
Johnson, Hilda V.	e		9 Falmouth
Johnson, Olga A.	28	Palmer	35 Maywood
Johnson, Robert Edward	28	Sherburne Falls	973 Main
Jones, Lloyd Charlton	29	Burnside, Conn.	14 Tirrell
Kaminsky, Reubin	30	Rensselaer, N. Y.	602 Grafton
Kane, Frank Roger	27		4 Norwood
*Kaneb, Albert Joseph	29	Thomaston, Conn.	34 Almont Ave.
Keller, Clarence Wakefield	e		Grafton
Kelly, Martin Joseph	29	Brookfield	
Kendall, Raymond O., A.B.	e		17 Orchard
Kennedy, (Mrs.) Anna B., A.B.	29		30 Russell
Kennedy, Melvin D.	e		78 Florence
Kenney, Helen	29	Springfield	11 Preston
Kenworthy, Philip Warren	e		5 Shirley
Kerwin, Mary G.	e		9 Cedar
King, Lillian I.	e		38 Shirley
Kinsley, Mrs. Edith Lancaster, A.B.	e		422 Lowell
Kirby, Margaret V.	e		152 West
Klein, Ann S. Mrs., Ph.B.	29		170 Austin
Klingele, Arnold Hermon	30		85 June
Kneller, George Frederick	e		
Knowlton, Margaret Warren			

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Knox, Dwight Fuller	30	Mystic, Conn.	Estabrook Hall
Koeppel, Clarence E., B.S.	G S	Churchville, N. Y.	15 Shirley
Kraemer, Irving	28	Clinton	7 Hancock
Kranich, Mrs. Helen M.	e		40 Whitman Rd.
Kremer, Abraham	29	Lowell	981 Main
Kropp, George Victor	s		8 Buffum
Ku, Te Ming, A.M.	Ec F	Peking, China	9 Mt. Pleasant
Laakso, Eino Fred	29	Gardner	
LaFleur, Albert, A.M.	G F	Waterville, Me.	166 Woodland
Lagoudakis, Charalaos G., A.M.	H F	Springfield	166 Woodland
Laidlaw, Ruth Esther, B.E.	G S	Monmouth, Ill.	4 Clement
Lamb, Wallace Emerson, A.B.	H S	Bolton Landing, N. Y.	78 Florence
Larkin, Charles Adrian	30	Stamford, Conn.	Estabrook Hall
Larrabee, Carlton Hardy	27	Leominster	4 Hancock
Laverty, Margaret L.	e		64 Park Terr. Rd.
Lehnert, Frederick Oscar	28	New Haven, Conn.	Estabrook Hall
Levenson, Samuel	30		106 Salem
Levesque, Bertrand Edmund	29	New Bedford	973 Main
Levett, Abraham	29	New Haven, Conn.	22 Shirley
Levine, Robert	30	Brooklyn, N. Y.	64 Arthur
Levitz, Aaron	29	West Springfield	981 Main
*Lewis, Christian John	28	New York, N. Y.	
Liggett, John Riley, A.M.	Ps F	Lawrence, Kans.	
*Lindberg, Vitales Lethine	27		37 Forbes
Lippincott, Stuart W.	29		14 Sever
Little, James Guilford	27		3 Chadwick
Loewenberg, Bert James, A.B.	H S	Boston	14 Tirrell
Longbottom, Richard Parker	30	No. Grafton	
Lotz, William Albert, A.B.	e		18 Wyola Drive
Lukens, Frank Nelson	29	Burlington, N. J.	35 Maywood
Lundstrom, Alexander Otto	28		46 Park Ave.
Luvisi, Fred Paul	29		51 Suffolk
McDonald, Robert Earl	30		75 Townsend
McDonnell, Nellie A.	e		18 Cherry
McGinnis, Henry	29		8 Woodbine
McHugh, Hannah T.	e		44 Dorchester
McKelligett, Marguerite Cecelia, A. B.	Ps G	Warren	Normal School
McQueeny, Theresa F.	e		35 Westminster
MacCullough, A. Verne, A.B.	H g		176 Russell
MacDonald, Herbert Andrew	29	Peterborough, N. H.	
MacGeoch, John Bartle	28		40 William
MacGregor, Rob Roy, A.M.	H F	Temple, Texas	Estabrook Hall
Mahan, Kathryn E. A.	e	Wheelwright	62 Florence
Maher, Lillian Jaquith	s		22 Downing
Mahony, Richard	s	Boston	53 Maywood
Mansur, Lawrence Cutler	29		138 Maywood
Marble, Ernest Turner	30		14 High Ridge Rd.
Marble, Frances E., A.B.	s		11 Clement
Marble, Sarah A., A.M.	e		28 Cedar
Marchant, William Everett	30		1 Aetna
Master, Moses	28	Yantic, Conn.	24 Oread
Mattson, Arthur Emil	29	Danbury, Conn.	908 Main
*Maxwell, William Hale, A.B.	G S	Huntington, W. Va.	
*Mead, George Edward	30	Oxford, N. Y.	
Melaven, Ella G.	e		15 Monroe Ave.
Mercier, Harold Abraham	s		121 Winfield
Merriam, George Henry, A.B.	H S	Weehawken Heights, N. J.	9½ Hawthorne
Mettler, Frederick Albert	29		156 Woodland
Meyer, Leo J., A.M.	H F	Bridgeport, Conn.	166 Woodland
Miller, Eileen Mae, A.B.	B S		11 Oliver
Mills, Frederick Thomas	28		129 Austin
Mitchell, Margaret Marion, A.B.	H F	Vancouver, Can.	26 Benefit
Moberg, Edgar August	30		1 Daguerre
Moore, John Robert	27	Winsted, Conn.	35 Maywood
Moore, Jonathan Frederick	30		112 Paine
Moores, Stephen	30	Chelsea	Estabrook Hall
Morrill, Emmet Thaddeus	27	Brockton	766 Main
Morrill, Mrs. Malvina E.	e		206 May
*Morris, George William, A.M.	H F	Buffalo, N. Y.	
*Morse, Arthur Carleton	30	Plymouth	28 Irving
Murdock, Frederick Mareau	30	West Boylston	4 Franconia
Murphy, Mrs. Emma Bates	e	Webster	12 Oberlin
Murphy, Mary A.	e		33 Millbury
Nadler, Matthew	29		
Nafe, Robert Wallace, A.M.	Ps F	Boulder, Colo.	
*Nelson, Morgan Henry	28	Winnetka, Ill.	
Nicol, Everett	30		

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Niman, William Arthur	29		71 Fox
Nordstrom, Joel	30		6 King
Nuzie, Samuel	s		26 Providence
O'Connor, Delia Gertrude	s	Spencer	
O'Connor, Grace M.	e		22 Ledge
*O'Halloran, William Francis, A.B.	27	Brockton	
O'Neill, John Arthur	29	Farnumsville	Estabrook Hall
Ordyk, Joseph F.	30	Amsterdam, N. Y.	63 Chester
Ostrom, Abbie C.	e		
*Page, John Lorence, A.M.	G S	Norman, Okla.	
Paige, Mildred M., A.B.	H g	Manchester, N. H.	175 Austin
Palley, Mrs. Lillian A.	e		82 Longfellow Rd.
Parker, John Jackson	29	Fairhaven	973 Main
Peltier, Charles Lester	30	Dalton	Estabrook Hall
Peltier, Louis J., A.M.	e		
Perrin, Harold Henry	s	Shrewsbury	
Peterson, Alice Hannah, B.S.	Ps S	West Newton	766 Main
Peterson, Clara A.	s	Schuylerville, N. Y.	35 Clement
Peterson, Ernest Gustaf	28		50 Huntington Ave.
*Phair, Hiram Blaisdell	30	Limestone, Me.	3 Wilkinson
Phair, James Arthur	30	Limestone, Me.	Shrewsbury
Phelan, Frank	s	New Britain	12 Oberlin
Pitcher, Thornton Lewis, A.B.	H S	Marshfield, Vt.	35 Shirley
Pitkin, Victor Ellsworth	29	Litchfield, Conn.	156 Woodland
Plumb, Philip Bissell	27	Pittsfield	7 Hancock
Poch, Maurice	30	Lawrence	Estabrook Hall
Pollock, Morris	29		16 Shirley
Pomerat, Charles Marc	s		City Hospital
Pooler, Priscilla Alice, A.M.	Ps F	Webster	4 Downing
Porter, Gordon Disbrow	27	New Britain, Conn.	35 Maywood
Preissel, William Frederick, A.B.	H S	New Britain, Conn.	7 Hancock
Prouty, Etta Frances	e	Shrewsbury	93 Cutler
Quinn, James	28		8 Ashmont Ave.
*Rainville, Earl David	29	Leominster	
Raphael, Ralph	29		Estabrook Hall
Raymenton, Marion Ward, A.B.	H F	Roxbury	52 Vale
*Read, Francis Arnold	29	Danbury, Conn.	56 Fruit
Reed, Anna R.	e		28 Marion Ave.
Reid, Margaret B., A.B.	e		33 Maywood
Revzin, Seymour	28		
Rich, George Bradford	28	Fort Fairfield, Me.	
Richard, Rosalie Sylvia Pauline	s	Spencer	
*Richards, Gragg, Ph.D.	G F	New York, N. Y.	4 Montague
Richards, Kenneth Bancroft	30	Bloomington, Ill.	166 Woodland
Ripley, Mabel, B.E.	G F	Valley City, N. Dakota	Estabrook Hall
*Robertson, Ina Cullom, A.M.	30	Fairhaven	32 Windham
Rogers, Harry	H g		3 Intervale Rd.
Rogers, John Harold, A.B.	29	New Britain, Conn.	37 Tirrell
Rogin, Edward Sagor	28	Bronx, N. Y.	9 Lagrange
Rothman, Theodore	e		
Rourke, Lalla M.	e	North Grafton	74 Florence
Sanford, Florence C., A.B.	28	Putnam, Conn.	46 Beaver
Sanger, Quintin Marcellus	29		16 Shirley
*Scanlon, John Joseph	27	New Haven, Conn.	76 Whipple
Schaeffer, Martin	e		12 Oberlin
Schonning, Carl Elmer	28	New Britain, Conn.	166 Woodland
Schweitzer, Francis George	G S	Waterford, Ohio	
Schwendeman, Joseph Raymond, B.S.	29	Westboro	804A Main
Scott, Allan Charles	30		6 St. Elmo Rd.
Scott, John Howe	e		
Seder, Mrs. Jeanette R.	s	Willimantic, Conn.	7 Hancock
*Shafer, Harley Hall	H S		19 Henchman
Shalloo, Jeremiah P., A.B.	29		6 Bowdoin
Shanahan, Raymond Philip	s		153 Providence
Shattuck, Anna W.	27	No. Uxbridge	
Sheftel, Harry Bernard	e		129 West
Sherman, Mabel	28	Enfield, N. H.	166 Woodland
Shipman, Fred Waldo	29		25 Woodford
Shipman, Julia Mary, A.M.	27		1054 Main
Silverman, David	29	New Haven, Conn.	35 Maywood
Silverman, Samuel	s		41 Maywood
Simmonds, William Melvin	30	Pearl River, N. Y.	211 June
Simonds, Stuart Howes	30	Bernardston	Estabrook Hall
Skinner, David Ludington	29		7 Hancock
Slade, Frank David	27	Northboro	
Slate, Robert Irving			
Small, Ralph Leslie			

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Smith, Abraham	29	Fitchburg	981 Main
Smith, Benjamin	29	Lowell	866 Southbridge
Smith, Kenneth W.	s		Estabrook Hall
Snell, Silvanus H.	s		Estabrook Hall
Snider, Herman Aaron	30	Roxbury	3 Flower
Solomon, Harry David	30		
Southwick, Thomas Earle	30	Leicester	60 Suffolk
Spadola, John Michael	28		Estabrook Hall
Spaulding, Charles Clinton	30	Durham, N. C.	2 Woodbine
Spieth, Dorothea Isabelle, A.B.	Ps S	Cleveland, O.	
Stacy, Chester R.	G g	Webster	Estabrook Hall
Stamatades, Andrew E.	s	New York City	682 Main
Stanton, Cora A.	s	West Chesterfield	Estabrook Hall
Steatinos, George J.	s	San Diego, Cal.	
Stevens, Althea Mrs.	e	Grafton	8 Lawrence
Stevens, Frank Paul	30		19 Kingsbury
Stewart, Walter Grant	29		35 Hillcrest Ave.
Stockdale, Louise A.	e		Estabrook Hall
Stone, Robert, B.P.E.	s	Schenectady, N. Y.	
Streeter, Lilla M.	e	Millbury	4 Woodbine
Sullivan, Catherine E., A.B.	Ps S	Northampton	37 Vernon
Sullivan, E. M.	e		9 Tainter
*Sullivan, John Joseph	30		2 Wyman
Sullivan, John Joseph	28		8 Newbury
Sullivan, John Joseph	s		56 Davidson Rd.
Sussman, Lillian	s		50 Holden
Swan, Paul Richard, A.B.	Ec g		48 Barclay
Swartz, David Eli	27		78 Florence
Tabor, Osborne Bailey	27	Southbridge	12 Lamartine
Farlow, Harry	29		4 Pelham
Fate, Ulysses Simpson	s	Washington, D. C.	973 Main
Fatham, Stanley Joseph	28		34 Oread
Tausch, Mrs. Anne Elizabeth	s	Kenmore, O.	10 Mt. Pleasant
Taylor, James Henry	30		62 Sterling
Tierney, Thomes Joseph	27		62 Uxbridge
Tomajan, Frances S.	e		272 Burncoat
Tomajan, Russell	28		Estabrook Hall
Toy, Charles Mallery	30	Chesapeake City, Md.	
Toyoda, Kaoru	s	Tokio, Japan	45 Harvard
Tupper, Eleanor, A.B.	H S		10 High
Ussner, Sydner Raynolds	29		166 Woodland
Van Royen, Willem	G F	Utrecht, Holland	7 Hancock
*Varnum, Cecil Brown	29	Dudley	
*Vincent, Charles Blanchard	30	Groton, Conn.	830 West Boylston
Wall, Ray Henry, B.Ch.E.	s		24 Cleveland Av
Wallin, Gertrude E.	e		
*Wangelin, Blanche E., B.E.	B S	Milan, Ill.	87 Florence
Weber, John Henry, A.B.	G S	Cooperstwon, N. Y.	63 Plantation
Weed, Bester Cicero, A.B.	B s		14 Tirrell
Welson, Milton Kibbe	29	Holyoke	
*Wemple, Wallace Jerome	30	New London, Conn.	199 May
*White, Stanley Franklin	30	Jamaica, B. W. I.	26 Woodford
Whiting, Stanley Hartshorn	28		78 Clayton
Whitman, Samuel Milton	30		3 Bernice
Wiback, Ingrid T.	e		18 Richmond Ave.
Wilder, Frank Woodman	28		Estabrook Hall
Williams, Mrs. Jacob I.	e		31 Lovell
Williams, William Larkin	30	Williamsville, Vt.	
Wilmouth, Irene F.	e		15 Reservoir
Wilson, Frank Edward	30	Warren	Estabrook Hall
Winter, Oscar Frederick	30		57 Arlington
Winton, Hildreth Turner	30	Stratford, Conn.	Estabrook Hall
Wolfe, George Meier David	27		30 Dewey
Wordell, Everett Job	30	Tiverton, R. I.	
Young, Richard Ellsmore	27	Athol	
Zarrow, Harry	27	Millbury	
Zumpfe, Leroy Clifford	29	Webster	

1926 Summer School

Alexander, Newton W.
 Amsden, Festus G.
 Amsden, Theodore M.
 Arell, Oscar W.
 Armitage, Frank G.
 Atwood, Wallace R.

Waterbury, Conn.
 Athol, Mass.
 Athol, Mass.
 Fitchburg, Mass.
 New Haven, Conn.
 Worcester, Mass.

Bailey, Ada H.	Sanford, Maine
Barnshack, Bird	St. Louis, Mo.
Bassett, Herbert	Macomb, Ill.
Baugh, Ruth E.	Los Angeles, Calif.
Bergin, John A.	Boston, Mass.
Bigelow, Roger P.	Worcester, Mass.
Billings, Mildred A.	Shrewsbury, Mass.
Bingham, Christine	Nashua, N. H.
Bingham, Mary A.	Nashua, N. H.
Blake, Parker	North Troy, Vt.
Bordwin, L. Elaine	Montclair, N. J.
Boson, Svea	Worcester, Mass.
Breen, Margaret	Hardwick, Mass.
Breen, Thomas A.	Worcester, Mass.
Brogan, James J.	Worcester, Mass.
Brown, Alice M. (Mrs.)	Leicester, Mass.
Brown, Virginia	Wilmington, Del.
Buck, Helen A.	Springfield, Mass.
Burch, Eleanor R.	Worcester, Mass.
Burdo, Nathalie L.	Fitchburg, Mass.
Burke, Walter K.	Saundersville, Mass.
Burnham, Helen S.	Malden, Mass.
Burr, Georgella	Woodhaven, N. Y.
Caldwell, Florence M.	West Chester, Pa.
Campbell, Anna	Worcester, Mass.
Carlson, Albert S.	Worcester, Mass.
Carlson, Gustaf H.	Worcester, Mass.
Carpenter, Grace H.	Webster, Mass.
Cashman, Chester J.	Worcester, Mass.
Chase, George B.	Stratford, Conn.
Chase, Lester	Worcester, Mass.
Chittim, Harold D.	Newport, N. H.
Christenson, Mildred E.	Worcester, Mass.
Clapp, John N.	So. Lancaster, Mass.
Clark, Ella L.	Shrewsbury, Mass.
Clark, Lucy	Kansas City, Mo.
Coffyn, Kingsland A.	New York, N. Y.
Coleman, Grace A.	Worcester, Mass.
Collins, Anna B.	Plattsburg, N. Y.
Conlon, James E.	Worcester, Mass.
Convery, Genevieve B.	Worcester, Mass.
Cotterel, Mary Ethel	Reading, Pa.
Coty, Everett W.	Worcester, Mass.
Coty, Francis J.	Worcester, Mass.
Crouse, J. Stanley	Worcester, Mass.
Crowell, Ruth	Bradford, Mass.
Curtis, Hazel S.	Poughkeepsie, N. Y.
Dehoben, Viola E.	Buffalo, N. Y.
Dell, Marie	
Denton, J. W.	Worcester, Mass.
Dewar, Margaret H.	Worcester, Mass.
Dickie, Allan	Worcester, Mass.
Dolan, Thomas A.	Worcester, Mass.
Donnelly, Everett C.	Worcester, Mass.
Earley, Sarah E.	Spencer, Mass.
Elder, Inez M.	
Elmer, Marian A.	
Evans, Gertrude	Arnold Mills, R. I.
Fanning, Mary M.	Worcester, Mass.
Fitch, Adelaide E.	Oswego, N. Y.
Fleming, Thomas F.	Worcester, Mass.
Forsythe, Marion B.	Potsdam, N. Y.
Fowler, Frances M.	Brunswick, Maine
Gannon, Thomas C.	New London, Conn.
Gatto, Vincent	Raymond, N. H.
Gerard, Wilhelmina	Elmira, N. Y.
Giles, Julia E.	Buffalo, N. Y.
Goeller, Robert B.	Garden City, N. Y.
Gordon, Catherine	Worcester, Mass.
Gorman, Ruth E.	Worcester, Mass.
Grove, E. Viola	Poughkeepsie, N. Y.
Hadley, Allan M.	Hancock, N. H.
Hadley, Lizzie E.	
Hadley, Mary A.	
Hale, Albert	Rio Piedras, P. R.
Hall, Florence E.	Watertown, N. Y.
Hanratta, Anna	St. Johns, Mich.
Hanson, Olga	Egeland, No. Dakota

Hanson, Edith	Egeland, No. Dakota
Harris, Lucretia	Poughkeepsie, N. Y.
Harris, Marion V.	Millbury, Mass.
Hart, Helen M.	Huntington, W. Va.
Hart, Isabelle K. (Mrs.)	Oswego, N. Y.
Hawkins, Ruth E.	Kansas City, Mo.
Healey, Josephine	Worcester, Mass.
Healy, Katherine	Worcester, Mass.
Herrington, Walter J.	Youngstown, Ohio
Hobson, Maude A.	Webster, Mass.
Howe, George R.	Massena, N. Y.
Hoyle, Esther M.	Massena, N. Y.
Humphrey, Kate L.	Willimantic, Conn.
Humphrey, Laura	Worcester, Mass.
Jacobs, Hattie A.	Worcester, Mass.
Jagodnick, Martha H.	Worcester, Mass.
Johnson, Emil	Worcester, Mass.
Johnson, Hilda V.	Worcester, Mass.
Johnson, Olga	Worcester, Mass.
Jones, Lloyd C.	Shelburne Falls, Mass.
Keller, Lois R.	Bucyrus, Ohio
Kennedy, Anna B.	Brookfield, Mass.
Kerlin, Oscar F.	Syracuse, N. Y.
Kinniry, Honora	Millbury, Mass.
Kline, Emma R.	Worcester, Mass.
Knowlton, Margaret W.	New York, N. Y.
Kuthy, Olga	Worcester, Mass.
Kneeland, Marion L.	Worcester, Mass.
Lathrop, H. O.	Leominster, Mass.
Leonard, A. Loretta	Boston, Mass.
Lincoln, Elizabeth M.	Worcester, Mass.
Loewenberg, Bert J.	Worcester, Mass.
Lombard, Helen	Worcester, Mass.
MacGeoch, John B.	Worcester, Mass.
Maher, Lillian	Worcester, Mass.
Maloney, Augustine F.	Blackstone, Mass.
Maloney, Edward J.	Worcester, Mass.
Marble, Harriet	Worcester, Mass.
March, J. Laura	Worcester, Mass.
Martin, Frances L.	Jersey City, N. J.
Matteson, Estella M.	Claremont, N. H.
Mattson, Arthur E.	Oneonta, N. Y.
Maxwell, William H.	Danbury, Conn.
Mayo, Barbara	Huntington, W. Va.
McAuliffe, Margaret I.	Framingham Ctr., Mass.
McCarthy, Mary A.	Worcester, Mass.
McConnel, Mary E.	Worcester, Mass.
McKenna, Florence M.	Seattle, Wash.
McQuaid, Frances E.	Worcester, Mass.
McQueeny, Theresa F.	Spencer, Mass.
Means, Margaret	Worcester, Mass.
Melton, Nell L.	Bloomington, Ill.
Mills, Lydia T.	Albany, Georgia
Morrow, Curtis H.	Portland, Maine
Moses, C. F.	Waterville, Maine
Mowry, Mary E.	New Concord, Ohio
Moyer, Emily A.	Greenfield, Mass.
Moynihan, Ellen E.	New York, N. Y.
Mullaney, Catherine P.	Worcester, Mass.
Murdock, Phyllis	Worcester, Mass.
Murphy, Theresa M.	Webster, Mass.
Murray, Isabel H.	Porto Rico
Nelson, Harold S.	Worcester, Mass.
Newell, Audra A.	Worcester, Mass.
Newkom, Bessie G.	Peoria, Ill.
O'Connor, Delia G.	Spencer, Mass.
O'Connor, Eleanor C. (Mrs.)	Gardner, Mass.
O'Connor, Mildred E.	Worcester, Mass.
O'Donnell, Kathryn R.	Worcester, Mass.
O'Leary, Mary B.	Worcester, Mass.
Osborne, Oressa N.	Spencer, Mass.
Ostrander, Elizabeth	Wellsville, N. Y.
Ostrom, Abbie C.	Worcester, Mass.
Otis, Flora E.	Oswego, N. Y.
Packard, Leonard C.	Needham, Mass.
Palmer, Mary E.	Worcester, Mass.
Pasanen, Walter R.	Worcester, Mass.
Patchett, Howard G.	South Lancaster, Mass.

Payne, Margaret W. (Mrs.)	Worcester, Mass.
Peabody, Eleanor L.	Shrewsbury, Mass.
Pearson, Gladys M.	Pittsburg, Pa.
Pils, Meta H.	Bloomington, Ill.
Pitcher, Thornton L.	Worcester, Mass.
Porter, Gordon D.	New Britain, Conn.
Pottle, Annie C.	Waltham, Mass.
Powers, Nellie E.	Westboro, Mass.
Pownall, Helen	Keyser, W. Va.
Preble, Charles S.	Farmington, Maine
Prevear, Mabel L.	Leominster, Mass.
Prouty, Etta F.	Shrewsbury, Mass.
Reddig, Etta E.	Reading, Pa.
Reid, Frank J.	Amsterdam, N. Y.
Ricketts, Lois C.	Worcester, Mass.
Ridgley, Winifred R.	Worcester, Mass.
Ruffells, Jane	Worcester, Mass.
Salter, Dorothy L.	Worcester, Mass.
Sanella, Frank	Worcester, Mass.
Sanford, Minnie E.	Castleton, Vt.
Sargent, Warren R.	Worcester, Mass.
Scannell, Agnes V.	Boston, Mass.
Scates, Louise	Memphis, Tenn.
Schaeffer, Martin	New Haven, Conn.
Seaward, Frances L.	Manchester, N. H.
Selin, Florence	Worcester, Mass.
Shanahan, Margaret	
Shanahan, Teresa C.	
Shields, Hazel D.	Melrose, Mass.
Silk, Ellen M. H.	Spencer, Mass.
Smith, Abraham	Fitchburg, Mass.
Smith, Aurelia S.	Indianapolis, Ind.
Smith, Kenneth W.	Worcester, Mass.
Smith, M. Ellen	Wilmington, Del.
Smith, Mary W.	Worcester, Mass.
Stevens, Leah	
Stever, Kathryn	Mechanicville, N. Y.
Swan, Paul R.	Worcester, Mass.
Sweeny, Anna G.	Worcester, Mass.
Swift, W. Everett	Worcester, Mass.
Tausch, Anne E.	Kenmore, Ohio
Toomey, Harry L.	Worcester, Mass.
Van Royen, William	Holland
Warren, Helen C.	West Auburn, Mass.
Watson, Eleanor B.	Peoria, Ill.
Webb, Ada L.	Southampton, N. Y.
Weed, Bester C.	Worcester, Mass.
Whitney, Blanche	Hopedale, Mass.
Whittier, Mabel C.	Worcester, Mass.
Wrightson, Geo.	Worcester, Mass.

Summary 1926-27

Undergraduates		235
Freshmen	73	
Sophomores	86	
Juniors	42	
Seniors	34	
Graduate Students		74
Full time	69	
Part time	5	
Special Students		48
Extension Students		69
Summer School Students (1926)		214
 Total		640

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Teachers' Courses

 HEFFERNAN DRESS
SIXTEEN SPENCER
MECHANIC STREET MASSACHUSETTS



Clark University Bulletin

NUMBER 55

JUNE 1927

Home Study Courses

Offered by

Clark University School of Geography

with preliminary announcement of

Clark University Summer School for 1928

Address all communications to

CLARK UNIVERSITY
HOME STUDY DEPARTMENT
WORCESTER, MASSACHUSETTS

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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THE GRADUATE SCHOOL OF GEOGRAPHY

Clark University offers excellent facilities both for undergraduate and graduate work in Geography and in the closely related departments of History and International Relations; Economics and Sociology. Geography may be pursued by undergraduates as a major or a minor subject. Graduate students may continue their work in Geography for the degrees of Master of Arts and of Doctor of Philosophy.

Steady and satisfactory progress in the study of geography may be accomplished by teachers in service through the Home Study Department and the Summer School of Clark University. Home Study Courses in geography are available at any time in both the educational and academic phases of the subject. These courses are fully described in this Bulletin. The Summer School offers exceptional opportunities to teachers of geography during the vacation period. A preliminary announcement of the Summer School of 1928 is given in this Bulletin. The Summer School Bulletin for 1928 will be ready for distribution February 1, 1928. It will be sent to any address on request. Full information concerning courses and degrees in Geography and in other departments of the University is contained in the Annual Catalogue, which will be sent to any address on request.

All geography work of Clark University is carried on by the Graduate School of Geography, which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well-equipped building, including lecture rooms, offices, and work rooms. The Geography Building is directly connected with the University Library. The extensive and growing collection of maps installed in the main work room of the Geography Building is an integral part of the University Library.

The Geography Workroom is equipped with individual office desks for thirty advanced students. These desks are assigned to special students of geography during the academic year and during the Summer School. Abundant shelf space for books and numerous racks for display of maps for detailed study are found in the workroom. One section of the workroom is equipped with large drawing boards, a large

glass-top table, and with first-class drawing instruments for the construction of maps and graphs for classroom work, thesis work, or for publication. A systematic course in Graphics and Cartography is given regularly each academic year and in the Summer session.

The teaching staff of the School of Geography is of sufficient size to extend to students personal direction and advice whenever needed. The numerous research courses offered at all times give ample opportunity for advanced students to profit by the personal assistance of experts in the various fields of research.

The Geography Staff

The Geography Staff, during the academic year 1926-27, consisted of the following persons:

WALLACE W. ATWOOD, PH.D., President of the University, Director of the Graduate School of Geography, Professor of Physical and Regional Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

OLIVER E. BAKER, PH.D., Professor of Agricultural Geography and Land Utilization.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education, Director of the Summer School, Director of Home Study.

CLARENCE F. JONES, PH.D., Associate Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Associate Professor of Geography, Managing Editor, *Economic Geography*.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

S. VAN VALKENBURG, D.Sc., Special Lecturer on Geography. (Second semester, 1926-27).

F. A. BRUNO DIETRICH, PH.D., Special Lecturer on Geograpy. (Six weeks, second semester, 1926-27).

IRENE J. CURNOW, PH.D., Lecturer on Physiography. (Second semester, 1926-27.)

- EDWARD H. SMITH, A.M., Special Lecturer on Oceanography.
- GUY H. BURNHAM, A.M., Cartographer.
- JULIA M. SHIPMAN, A.M., Assistant in Geography in Education.
(1926-27.)
- ALBERT LAFLEUR, A.M., Assistant in Geography. (First semester, 1926-27.)
- CHARLES GOOZE, A.B., Assistant in Economic Geography. (Second semester, 1926-27.)
- CLARENCE E. KOEPPE, A.B., Assistant in Climatology. (Second semester, 1926-27.)
- J. HENRY WEBER, A.B., Assistant in Meteorology. (1926-27.)

Home Study Courses in Geography

Home Study Courses in Geography are offered as a part of the work of the School of Geography. These Home Study Courses are designed to be of special value to teachers in service, to students who may wish to secure college credits while not in residence, and to persons who may wish to have the benefits of directed study and reading.

HOME STUDY COURSES FOR TEACHERS IN SERVICE

The Home Study Courses enable teachers to relate their directed study immediately to their geography teaching of the year. Five courses are offered in the Teaching of Geography. One of these courses gives a general survey of the entire course of study in the geography of the elementary school and junior high school. This course is of special value to teachers who do geography work in several grades and to principals and supervisors who give attention to the entire curriculum of the school. The other four courses treat subject matter and method of presentation of selected units of study suitable to one or two years of school work. The teacher can thus select a course which gives a detailed presentation from the teacher's point of view of the work of any grade. These courses are of special value to the grade teacher who wishes assistance in geography work and to the

special teacher of geography whose efforts are concentrated on the geography work of one or two grades.

The Home Study Courses also enable teachers in service to pursue the study of geography extensively in its academic phases. Thirteen academic courses offer opportunity to choose regions or subjects of special interest. A course in Industrial and Commercial Geography is of immediate value to the teacher of Commercial Geography or Economic Geography in high school. Four courses are devoted to detailed studies of the various continents. These courses enable teachers to pursue academic college courses dealing with the regions which they are teaching, resulting in a wealth of information readily adapted to the geography teaching in the grades.

The courses in Physical Geography and in Weather and Climate are of immediate value to the teacher of Physiography in the high school, and give to the teacher of any grade basic knowledge needed by every teacher of geography.

The course in Mathematical Geography gives an extended study of those fundamental relationships between the earth and the sun which are of great significance but rarely understood by the teacher well enough to be handled with assurance on all occasions in all grades. The course in Graphics and Cartography gives instruction which will enable the teacher to construct graphs and charts of immediate classroom value, and to direct capable pupils in the construction of graphs and maps for class use.

The value of these various Home Study Courses to teachers in service is evidenced by the fact that junior high school teachers have taken three or more courses in succession during a period of three or four years. Normal school teachers have found the courses suitable for their work and have taken several courses in succession. College teachers have been able to strengthen their own college courses by pursuing systematically these Home Study Courses. One college professor completed five Home Study Courses in rapid succession.

HOME STUDY COURSES AND COLLEGE DEGREES

Each Home Study Course here offered carries a college credit of three semester hours. A degree cannot be earned by

home study courses alone, but credits obtained by home study are credited toward the bachelor's degree at Clark University, and are transferable to other institutions under their own rules for accepting home study credits. Many teachers have earned their first credits at Clark University through home study courses, and some have later continued their work at Clark University Summer School for the degree of Bachelor of Education, for which 120 semester hours of college credit are required, with at least 30 hours earned in residence at Clark University, either during Summer School sessions or during the academic year.

The Master's Degree in Geography may be earned at Clark University by *at least* four summer sessions of graduate work; or by two summer sessions and one semester of the academic year; or by a full academic year. Home Study Courses do not give graduate credit, but the necessary foundation work of undergraduate requirement may be completed through home study courses of appropriate character. Experienced teachers now holding advanced degrees in geography from Clark University, began their studies at Clark University through home study courses.

The Home Study Courses and the Summer School sessions have enabled teachers to secure the degree of Master of Arts in geography without loss of time from teaching, or by a leave of absence for only one semester.

Home study courses are not a substitute for a college education, but they effectively supplement college work, and furnish the teacher in service a convenient and an ever-present means of pursuing selected lines of study under specific and competent personal direction.

HOME STUDY COURSES FOR SUMMER CREDIT

Teachers who cannot attend Summer School may make satisfactory advancement in the study of geography during vacation. Many teachers have availed themselves of this opportunity by completing one or two home study courses during the summer vacation. Two home study courses give the same amount of college credit as is usually given for a summer session of six weeks. A home study course may be started before the close of the school year and be completed

promptly during the vacation period. Teachers have been given the same credit for professional advancement for home study courses as for courses taken in residence.

RECOGNITION OF CREDITS BY OTHER INSTITUTIONS

Students have occasionally inquired about the recognition of credits by certain school systems and by certain educational institutions.

The Board of Examiners for the city of Chicago has approved these courses at full value for promotional credits for the teachers of Chicago.

The Department of Public Instruction for various states have approved these courses for credit toward certification in the state school system.

A number of Universities and State Teachers' Colleges have agreed to accept these courses at full value when students wish to transfer credits to the respective institutions.

CREDITS AND TUITION

Each course, when satisfactorily completed, carries a college credit of three semester hours, the equivalent of a college course taken in residence, meeting three times per week for one semester of 18 weeks. Each course consists of 36 written lessons, the preparation and the writing of which require about four or five hours each.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time. It should be completed within twelve months after enrollment.

NOTE TO SCHOOL SUPERINTENDENTS

This announcement is sent to many school superintendents with the hope that the information will be made available to the teachers of geography in the school system. Additional copies of this announcement will be sent to superintendents, on request. If a school directory is sent to the Home Study Department, announcements will be sent to all school principals. Through these home study courses in geography Clark University wishes to extend its services as widely as possible for the betterment of the teaching of geography in the schools.

HOW TO BEGIN PROMPTLY

Work on any course may be started promptly by selecting the course desired and sending the tuition fee, made payable to the order of Clark University. Full details and the complete set of lessons will then be forwarded without delay.

Sample lessons of any course will be sent on request, accompanied by a statement of the scope and purpose of the course and a complete list of books required for the course.

Address:

CLARK UNIVERSITY,
Home Study Department
WORCESTER, MASSACHUSETTS

List of Home Study Courses

The following is a list of the Home Study Courses with the names of the persons who prepared the various courses for the Home Study Department:

COURSES IN THE TEACHING OF GEOGRAPHY

1. **The Teaching of Geography in the Elementary School.** PROFESSOR RIDGLEY.
2. **The Teaching of Home Geography and World as a Whole.** PROFESSOR RIDGLEY and H. HARRISON RUSSELL, Professor of Geography, State Teachers' College, Bloomsburg, Pennsylvania.
3. **The Teaching of North America.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
4. **The Teaching of South America, Europe and Asia.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
5. **The Teaching of Geographic Factors and the United States in Its World Relations.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.

ACADEMIC COURSES IN GEOGRAPHY

6. **Industrial and Commercial Geography.** PROFESSOR RIDGELEY.
7. **Geography of North America.** PRESIDENT ATWOOD.

8. **Geography of South America.** MABEL E. STARK, Mills College, Oakland, California.
9. **Geography of Europe.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
10. **Geography of the Eastern Continents.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
11. **The Physical Geography of the Lands.** PRESIDENT ATWOOD.
12. **Weather.** PROFESSOR BROOKS and MR. CLARENCE E. KOEPPPE, Assistant in Climatology, Clark University.
13. **Elements of Climatology.** PROFESSOR BROOKS and MR. KOEPPPE.
14. **Climates of the World.** PROFESSOR BROOKS and MR. KOEPPPE.
15. **Climatology of the United States.** PROFESSOR BROOKS and MISS FRANCES V. TRIPP.
16. **Mathematical Geography.** MR. BURNHAM.
17. **Graphics and Cartography.** MR. BURNHAM.
18. **Special Studies in Geography.**

DESCRIPTION OF COURSES

The following brief descriptions of the courses give a general notion of the scope and purpose of each course.

COURSES IN THE TEACHING OF GEOGRAPHY

1. **The Teaching of Geography in the Elementary School.** This course is of interest to teachers, principals, and supervisors. It deals with geography method as applied to the systematic development of a course of study through the elementary school and the junior high school. It is comprehensive in scope, giving specific aid in selecting content and method of presentation in the various grades in which geography is studied. Recent courses of study are examined and recent books on the teaching of geography are studied.

2. **The Teaching of Home Geography and World as a Whole.** Specific directions are given for the development and presentation of these two aspects of the early geography work. A study of the home community is outlined and field lessons suggested. Sources for an elementary study of the World as a Whole are indicated and suitable references

studied. This course deals with the content and method of presentation of that part of the course of study in geography which precedes a detailed regional study of continents.

3. The Teaching of North America. Subject matter and method are presented for the regional study of the home continent. Specific use is made of standard textbooks, outline maps, supplementary readers, and other reference books. The organization of the course is suitable for use with pupils making their first detailed study of a continent. The student makes a comprehensive and detailed study of North America from the teacher's point of view, and organizes the information obtained for immediate and effective classroom use.

4. The Teaching of South America, Europe, and Asia. A survey of each continent is made with an organization suitable for classroom presentation. Extensive readings and specific map studies furnish the teacher with the necessary knowledge for the teaching of these continents. Suitable problems and projects are developed in the lessons. The course proceeds from the teacher's point of view and results in developing the scholastic and the pedagogical aspects of study side by side to the advantage of both phases of the subject.

5. The Teaching of Geographic Factors and the United States in Its World Relations. A suitable course is developed for upper grammar grades and junior high school. Specific aid is given in the study of mathematical geography and geographic factors of world-wide importance. A study of the United States in comparison with other parts of the world serves to summarize the geography work of previous years. In this course the student obtains a systematic survey, from the teacher's point of view, of the geographic factors and geographic principles necessary to the presentation of the causal relationships in geography. The relation of the United States to other nations of the world is developed in this final study in grammar school geography.

ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography. This course is of interest to teachers of commercial geography or economic geography in high schools, normal schools, and colleges. The study includes a systematic examination of the agricultural,

manufacturing, and commercial activities of the world. The chief commodities are studied from a world-wide point of view. Countries and continents are compared with reference to natural resources and productive power.

7. Geography of North America. This course is based upon a regional treatment of the continent. The natural geographic regions form the basis for the subdivision of the continent. The political and economic geography is appropriately treated, and the bearing of geography upon American history is included in the study of the continent. This course furnishes the grade teacher a rich fund of information for illuminating the geography work of intermediate grades. Normal school and college teachers will find the course helpful in amplifying their own classroom courses.

8. Geography of South America. A definite interpretation of the several geographic regions of the continent forms the basis of the work. Students use a selected list of the most recent and authoritative source materials on South America. The teacher and the business man will find this course of value in extending their knowledge of our neighbor-continent by systematic study of its natural features, its resources, and its human activities.

9. Geography of Europe. This course includes a brief study of the countries of Europe in 1914, the establishment of political boundary lines in 1920, and changes in more recent years. A systematic survey is made of the regional and economic geography of the continent. This course gives teachers of geography and history a background of information with which to vitalize these subjects in the classroom.

10. Geography of the Eastern Continents. This study deals with the geography of Asia, Africa, and Australia. The fundamental geographic factors of each continent are treated in relation to the distribution of population and the human activities of the various regions. Emphasis is given to those regions where most people live. The wide extent of the areas treated brings into sharp contrast all types of land forms and climatic conditions.

11. The Physical Geography of the Lands. Through a series of carefully selected problems, with laboratory material and special references, the student is guided to an apprecia-

tion and understanding of the fundamental principles involved in that phase of physiography which leads to an understanding of the physical features of the earth's surface. A special series of topographic maps, issued by the United States Geological Survey, is used as a basis for laboratory work. This course is of immediate value to teachers of physiography in high school, normal school, or college.

12. Weather. Weather is an ever-present geographic factor, readily observed, and much discussed. This course is designed to give the student an appreciative understanding of the everyday weather conditions and weather processes. Simple observations of the weather elements are made, and their interpretation leads to the problems of weather forecasting. Elementary meteorology is studied with emphasis upon those topics of special interest and value to the teacher as well as the general student. This course gives the teacher a grasp of the facts of weather not readily obtained from books.

13. Elements of Climatology. This course aims to give the student a basic understanding of all the factors which make up the climate of any place. The effects of land and water, of mountains, of ocean currents, and so on, are taken up, and followed by a treatment of the climatic belts of the world and the various types of climate such as continental, monsoon, and savanna. This course is of interest to the general student. It gives specific aid to teachers of geography in leading them to a keener appreciation of the influence of climate on man and his activities.

14. Climates of the Continents. Since climate is an ever-present and powerful influence in the natural environment of man, a systematic and detailed study of the climates in which

NOTE—Courses 12, 13 and 14 are elementary college courses dealing concretely with weather conditions and climatic factors in simple form. These courses are of immediate value to all teachers of geography, whether in the elementary school, junior high school, normal school, or college, if they have not already had extensive college training in meteorology and climatology. Each course is a unit in itself, and the courses may be taken in any order. If the three courses are taken in the order here given, a comprehensive and accurate knowledge of the weather and the climate of the world will result. If only one of the courses is taken, Course 14 will give most immediate value for teaching the usual courses in geography in the elementary school and junior high school. Course 15 is a more advanced course which gives detailed knowledge of the climate of the United States not usually included in college courses in meteorology and climatology.

people live is of prime importance to all students and teachers of geography and history. This course develops an understanding of the climates of the various continents and islands of the world. The topics are simply treated and this course may be taken as the first in a study of the climatic conditions of the world. This course is especially adapted to be of immediate value to all teachers of geography.

15. Climatology of the United States. This course is a more advanced treatment of climatology as applied to the United States, and may be taken by those who have taken Courses 12 and 13 or their equivalent. The work of this course is based largely upon the recent book, "The Climates of the United States," by Professor R. DeC. Ward of Harvard University. Teachers who give much time to the study of the United States will do well to take this course, or, at least, to use Professor Ward's great book for study and for reference.

16. Mathematical Geography. An understanding of the earth's relations to the sun, moon, and other heavenly bodies is necessary to the development of clear and accurate geographic concepts. This course includes a study of the seasons, changing length of day and night, latitude, longitude, time, and the calendar. The principal constellations are observed and studied. The student obtains a comprehensive view of mathematical geography, and the material of the course is readily adapted to the requirements of the geography work in any grade.

17. Graphics and Cartography. An understanding of graphs and maps is necessary in any study of geography. This course gives the student ability to take printed data and to construct accurate graphs and maps. The actual construction of a few graphs and maps gives the student increased ability to read more intelligently, and more rapidly, the numerous graphs and maps studied in geography and other subjects. This study enables the student to prepare graphs and maps for class use or for individual study.

18. Special Studies in Geography. Students who have had several courses of college grade in geography may pursue special studies under the personal direction of members of the teaching staff in the School of Geography of Clark

University. This work may be undertaken only after personal correspondence and proven ability to pursue the work with profit. Correspondence is invited concerning any field of special interest.

Preliminary Announcement
OF
THE SUMMER SCHOOL FOR 1928
SIX WEEKS, JULY 2, TO AUGUST 10

The Clark University Summer School is organized to offer special opportunities to teachers in a few departments only. These are: Geography, History, Economics, Psychology and Education, English, French and German. Special emphasis is given to Geography and History with a sufficient variety of courses in the other departments to give all work needed for experienced teachers with normal school training to obtain the degree of Bachelor of Education.

The Summer School offers exceptional opportunities to teachers of geography and history. The school is small, the buildings are commodious, the library is well provided with books and magazines in these and other departments. The library shelves are open to all. Classes are relatively small, and personal contact with fellow students and with instructors is easy and natural. The Summer School program of studies is designed for the special needs of teachers of geography and history. Courses are offered in the teaching phases of both subjects, and the extensive offerings of academic courses have been made with special reference to the needs of teachers.

The degree of Bachelor of Education at Clark University is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent. Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned *in residence* at Clark University. The completion of 120 hours of college credit is required for this degree.

The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met.

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during four or more sessions, preparing an acceptable thesis, and passing a satisfactory oral examination. All programs of work to be applied toward the requirements for the degree of Master of Arts, should be approved in advance by the major department concerned.

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit.

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett; Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead; the Wayside Inn; Lexington and Concord; Cohasset, famous for its carillon; a deep-sea fishing trip to fishing banks twenty miles at sea.

For the coming session trips will be planned to suit the interests of the student body.

Special Note.—As this bulletin goes to press, preliminary plans are under way, by request of the Summer School students of 1927, for a Coast-to-Coast field trip by motor coach during July and August, 1928. Dr. W. Elmer Ekblaw of Clark University will conduct the trip. The preliminary plans provide for members of this field trip to meet July 2, 1928, at Clark University for one week of intensive work under the direction of Dr. Ekblaw on the geography of the regions to be visited. The field party will start at Worcester, proceed to San Francisco, Los Angeles, New Orleans, Birmingham, New York, Boston, and return to Worcester in the latter days

of August. Full information about this proposed trip will be sent on request.

GENERAL PLAN FOR COURSES IN 1928

At the date of issue of this Bulletin, no definite list of courses to be offered in the next summer session can be given. In general, the courses will be similar in scope to the offerings of 1927. The following suggests the general lines of work under consideration.

In Geography, basic courses will be offered in Weather; Climates of the Continents; Physiography; and Economic Geography. Continental studies will be offered in North America; South America; and probably The Far East. In the educational phases of Geography, courses will be offered in The Teaching of Geography in the Elementary School; and a course for Special Teachers of Geography. Courses will be offered in Field Geography; Mathematical Geography; Graphics and Cartography; and Materials for Geography. Other geography courses are under consideration.

In History, courses will probably follow the general plan of 1927, in which two courses were given in European History, two in United States History, one in Government, and one on The Teaching of History in the Junior and Senior High Schools.

In Economics, an elementary course and an advanced course will be offered.

In Psychology and Education, two or three courses of special value to teachers will be offered.

In English, two courses will be offered in Literature, one in Public Speaking, and one in Dramatics of special value to teachers who have charge of plays in the elementary school and the high school.

In both French and German one course will be given for beginners and one for advanced students who wish to read literary and scientific works. The advanced courses are suited, as far as possible, to the individual needs of each student.

The Summer School Bulletin giving full information about all courses will be ready for distribution in February, 1928. Write now for a copy, and it will be sent as soon as published.

TWO BIBLIOGRAPHIES FOR TEACHERS OF GEOGRAPHY

Two bibliographies of value to teachers of geography have been prepared while their authors were graduate students in the Clark University School of Geography. The bibliographies have been published by the School of Geography and are distributed through the Home Study Department. A nominal price of 25 cents is charged for each in order to cover cost of publication and of revision with each edition. These bibliographies offer teachers, supervisors, and superintendents recent and reliable information concerning the published materials available for the reading and study of teachers and pupils. The authors of both bibliographies have searched the field for appropriate literature, have personally examined the books and articles listed, and carefully classified the materials thus selected.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography*. Fifth Revised Edition. 1927. Price 25c. More than 600 references to books and magazine articles are classified under 22 topical headings; 82 references are given under "Aims in Teaching Geography," 48 on "The Course of Study," and 119 on "Problems and Projects." The list of books from which references are taken constitute a select list for any library. The magazine references are brought forward in this revision to May, 1927.

2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School*. 1926. Price 25c. More than 500 books suitable for reading by pupils of the elementary school and the junior high school are listed. Annotations give the chief characteristics of the books, and indicate the grades for which the books are suitable.

These bibliographies will be sent postpaid to any address for 25c per copy. If the order is for 5 or more copies of one or of both, the price is 20c per copy.

Address:

CLARK UNIVERSITY,
Home Study Department
WORCESTER, MASSACHUSETTS

MATERIALS IN GEOGRAPHY

During the Summer School of 1927, a course for credit was offered under the title, "Materials in Geography." Students enrolled in this course were furnished with an abundance of free literature of a geographical nature from transportation lines, tourist bureaus, manufacturing concerns and other sources. Members of the class made for themselves exhibits illustrating the leading products studied in geography. Concrete materials of value in the teaching of geography were thus brought together, studied, and organized into systematic form for classroom use. A similar course will be offered in the Summer School of 1928. Members of this group of students found that the materials thus assembled and placed at their disposal by the Clark University Summer School were more extensive and more closely related to classroom needs than materials collected by an individual teacher at considerable cost of time and postage. At the urgent request of the Summer School students of 1927, Clark University is now undertaking to assemble and distribute literature of special value to teachers and pupils of geography. The transportation companies and manufacturing concerns are extending most cordial assistance in this co-operative effort.

A package of pamphlets and booklets of value in geography will be sent to any address on receipt of \$1.00 to cover cost of selecting and packing the material and the cost of transportation. Each package will be sent postpaid. This opportunity for securing a good assortment of material is extended to any school or any teacher.

Exhibits of important products such as cereals, cotton, silk, lumber, spices, and other common commodities will be furnished at cost of preparation. A list of available exhibits and cost of each will be sent to any school or any teacher on request. Address,

CLARK UNIVERSITY,

Home Study Department

WORCESTER, MASSACHUSETTS

ORDER BLANK

Clark University,
Home Study Department,
Worcester, Massachusetts.

Please send me the explanatory statement and sample lessons of the Home Study Course entitled:

Title of Course

Name

Address

Position

You may also send the other items checked on this form:

- Summer School Bulletin for 1928, ready in February.
No charge.
- Annual Catalogue of Clark University. No charge.
- Statement of the requirements for the degree Bachelor of Education at Clark University. No charge.
- Enclosed find \$1.00 for selected materials for teaching geography.
- List of exhibits with prices. No charge.
- Enclosed find 25c for Branom's Bibliography.
- Enclosed find 25c for Knight's Bibliography.
- Enclosed find for copies of Branom's Bibliography and copies of Knight's Bibliography at 20c per copy. This order must include a total of 5 or more copies.

Clark University Bulletin

Sub-Freshman Number



Published in the interest of Old Friends and New Acquaintances

Worcester, Massachusetts

1928



LARK UNIVERSITY offers, at moderate expense, a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit in addition to Physical Training, with a rank above the bottom quarter of the class in three-fifths of the work.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or even in three years.

The University's Summer School gives added opportunity to those who wish to earn the degree in less than four years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00, including a tax of \$10.00 in support of student activities.

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.

Foreword

You, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you.

One reason is that while the *graduate division* of Clark University has an international reputation among scholars, the *undergraduate division* ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country—both business and professional—or carrying on successfully in the various vocations.

Again, it is our desire to select carefully about one hundred and twenty-five Freshmen each year. We are already selecting our Freshmen from many more than this, but wish to select them from a still larger number. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.



Mallard W. Woodward
President

Officers of Administration and Instruction

WALLACE WALTER ATWOOD, Ph.D. (Chicago)

President

Professor of Physical and Regional Geography and Director of the
Graduate School of Geography

HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)

Dean of the College and Professor of Geology

LOUIS N. WILSON, Litt. D. (Tufts)
Librarian

JOHN PAUL NAFE, Ph.D. (Cornell)
Associate Professor of Psychology

BENJAMIN SHORES MERIGOLD, Ph.D. (Harvard)
Professor of Chemistry

CLARENCE FIELDEN JONES, Ph.D. (Chicago)
Associate Professor of Economic Geography

FRANK BLAIR WILLIAMS, Ph.D. (Clark)
Professor of Mathematics

JAMES BLAINE HEDGES, Ph.D. (Harvard)
Associate Professor of American History

GEORGE H. BLAKESLEE, Ph.D., L.H.D. (Harvard)
Professor of History and International Relations

WALTER ELMER EKBLAW, Ph.D. (Clark)
Associate Professor of Geography

CHARLES BREWSTER RANDOLPH, Ph.D. (Harvard)
Professor of German

VERNON A. JONES, Ph.D. (Columbia Teachers')
Associate Professor of Educational Psychology

PHILIP HUDSON CHURCHMAN, Ph.D. (Harvard)
Professor of Romance Languages

JAMES ACKLEY MAXWELL, Ph.D. (Harvard)
Assistant Professor of Economics

HAVEN DARLING BRACKETT, Ph.D. (Harvard)
Professor of Greek and Latin Languages and Literature

LELAND LEAVITT ATWOOD, Ph.D. (Cornell)
Assistant Professor of Romance Languages

LEROY ALLSTON AMES, A.M. (Harvard)
Professor of English Literature

JESSE LUNT BULLOCK, A.B. (Harvard)
Assistant Professor of Chemistry

LORING HOLMES DODD, Ph.D. (Yale)
Professor of Rhetoric

ARTHUR FLETCHER LUCAS, Ph.D. (Princeton)
Assistant Professor of Economics

ROBERT HUTCHINS GODDARD, Ph.D. (Clark)
Professor of Physics

DUDLEY WILSON WILLARD, Ph.D. (Washington)
Assistant Professor of Sociology

ELLEN CHURCHILL SEMPLE, A.M., LL.D., (Vassar)
Professor of Anthropogeography

DAVID POTTER, M.Sc. (Mass. Agri. College)
Assistant Professor of Biology

SAMUEL J. BRANDENBURG, Ph.D. (Wisconsin)
Professor of Economics and Sociology

GEORGE ELISHA BAKER, A.M. (Harvard)
Assistant Professor of English

ALFRED LEWIS PINNEO DENNIS, Ph.D. (Columbia)
Professor of Modern History

S. VAN VALKENBURG, D.Sc. (Zurich)
Assistant Professor of Geography

CARL MURCHISON, Ph.D. (Johns Hopkins)
Professor of Psychology

PERCY M. ROOPE Ph.D. (Clark)
Assistant Professor of Physics

WILLIAM HARDER COLE, Ph.D. (Harvard)
Professor of Biology

DWIGHT E. LEE, A.B. (Rochester)
Assistant Professor of History

WILLIAM HOMER WARREN, Ph.D. (Harvard)
Professor of Organic Chemistry

HEINRICH BOSSHARD, Ph.D. (Zurich)
Assistant Professor of German

WALTER S. HUNTER, Ph.D. (Chicago)
G. Stanley Hall Professor of Genetic Psychology

GUY HARVEY BURNHAM, A.M. (Clark)
Cartographer, Graduate School of Geography

CHARLES FRANKLIN BROOKS, Ph.D. (Harvard)
Professor of Meteorology and Climatology

ERNEST RAYMOND WHITMAN
Director of Physical Education

OLIVER EDWIN BAKER, Ph.D. (Wisconsin)
Professor of Agricultural Geography

RALPH WARNER ELLIS, M.D. (Harvard)
Medical Director

CAREY EYSTER MELVILLE, A.B. (Northwestern)
Associate Professor of Mathematics and Registrar

DEAN WINSLOW HANSCOM, A.B., (Harvard)
Director of Glee Club

DOUGLAS CLAY RIDGLEY, Ph.D. (Clark)
Associate Professor of Geography

ARTHUR J. DANN
Director of Orchestra



INNER COURT, UNIVERSITY LIBRARY

Location

LARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, being the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Worcester State Normal School, and Worcester Academy. The Worcester Art Gallery, with its large endowment, is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, is modern and well equipped. The situation of the city is such that opportunities in drama and in music are offered superior to those available in most cities of similar size.

Historical

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able

staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter is still, however, ordinarily referred to as Clark College.

The Campus

The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is only a few minutes walk from the campus. It accommodates fifty-one students. It is thoroughly up-to-date, heated by steam, well equipped with shower baths, and has light, airy corridors. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The old athletic field, immediately adjoining the campus, is an acre or more in extent, with tennis courts, outdoor basketball court, a six lap running track and space for field events. The University has recently purchased and developed as an athletic field an additional plot of about seven acres.

Endowment, Faculty, Laboratories, and Library

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.



ENTRANCE TO ESTABROOK HALL, THE FRESHMAN DORMITORY



G. STANLEY HALL MEMORIAL ROOM

G. Stanley Hall was an internationally famous psychologist and president of the University from its founding in 1888 to his resignation in 1920. His portrait appears in the cut.

The Library deserves special mention. In this prerequisite for real university and college life Clark is almost uniquely fortunate, for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage for their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its personnel, page 2. With its limited numbers Clark offers to every student



ENTRANCE TO GEOGRAPHY WING, LIBRARY BUILDING

an unusual opportunity for personal association with the Head of each Department in which he is working. *Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized.* These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

Courses of Study

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

A. Division of Science

I Mathematics, II Physics, III Chemistry, IV Biology,
V Geology

B. Division of Social Science and Psychology

VI History and International Relations, VII Economics
and Sociology, VIII Psychology and Education
IV Geography

C. Division of Languages and Literature

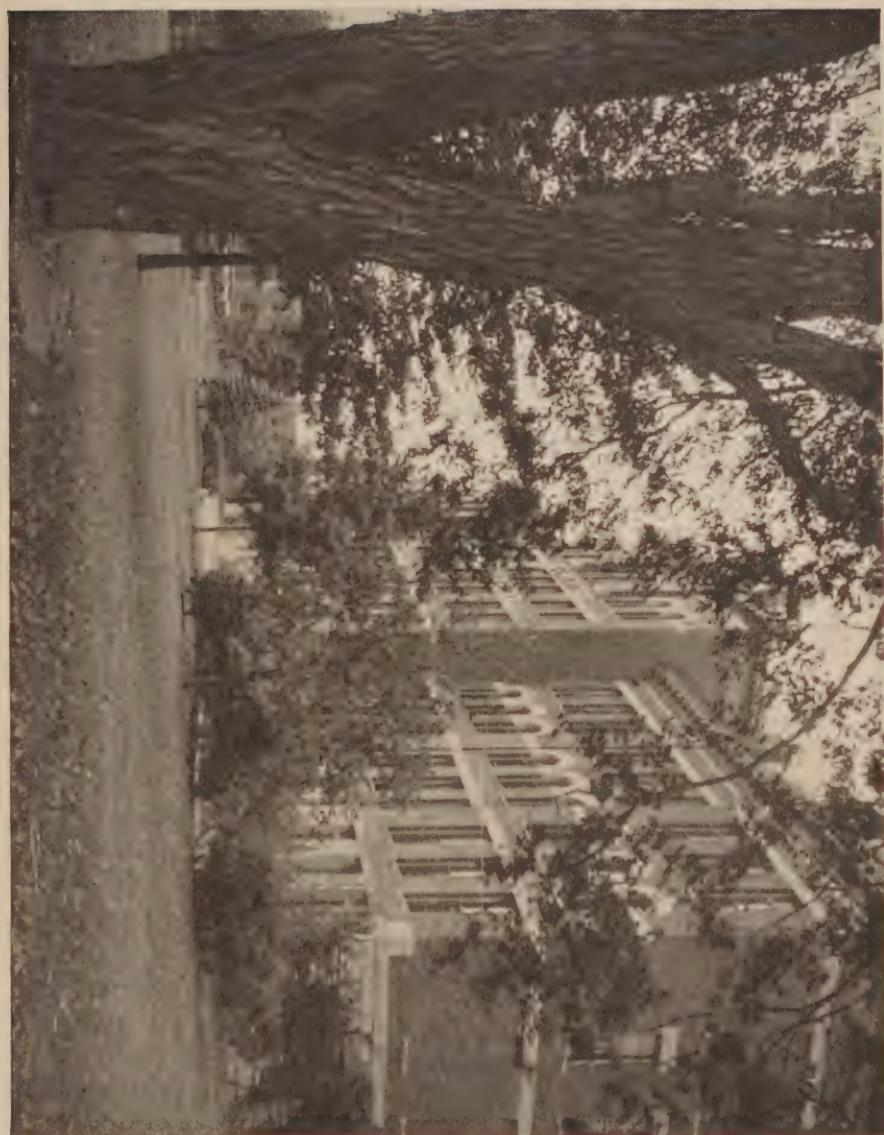
X English, XI German, XII Romance Languages,
XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and either Mathematics or an Ancient Language. If the latter is chosen, a science must also be elected. This leaves a further choice of one elective, or two if six courses are carried.

At the end of the freshman year a student is expected to indicate in which department he intends to *major* and to select a *minor* in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, leaving much of the last two years free for study in fields of special interest.

Clark desires the superior student to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner

JONAS G. CLARK HALL WITH CHEMISTRY-PHYSICS BUILDING IN BACKGROUND



the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Biology, Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education and also general undergraduate and graduate work.

Admission

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, *presentation of fifteen units of certified work*; third, evidence of good moral character. Students who present thirteen or fourteen units may be admitted on condition. These may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to the Board by about the middle of May. By special consent the September examinations furnished to the colleges by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the graduate division and to advanced undergraduate courses in some departments.

Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.



GLEE CLUB. 1927-'28

Participants in the New England Intercollegiate Singing Contest at Boston

Graduation

To obtain the degree of Bachelor of Arts in regular course a student is required to complete in a satisfactory manner a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of his class in at least three-fifths of his work.

A feature of Clark is the encouragement offered to students of ability to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his class. He may indeed petition to carry additional work. No one, however, is permitted to complete his college course in less than three years. A system of credit bonuses encourages high grade work.

Tuition, Room, and Board

Owing to the express desire of the founder that his generous

endowment should be used to make a college education available to deserving young men, the expense of tuition has been kept at the relatively low figure of \$100.00 a semester. This includes the annual student tax of \$10.00 for the support of various student activities, chiefly athletics and debating.

Other expenses are a \$5.00 matriculation fee, an additional tax of \$4.50 which the students have imposed upon themselves, and laboratory fees of \$2.50 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board is \$7.00* per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$10.00 is required as security against possible damage. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the opposite page shows the arrangement of the rooms.

Scholarships, Student Aid, and Self-help

No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshman scholarships, eight are reserved for candidates from the Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be applied for by anyone averaging in the upper quarter of his class for the preceding year.

*May be raised to \$8.00 at any time.

Northwest

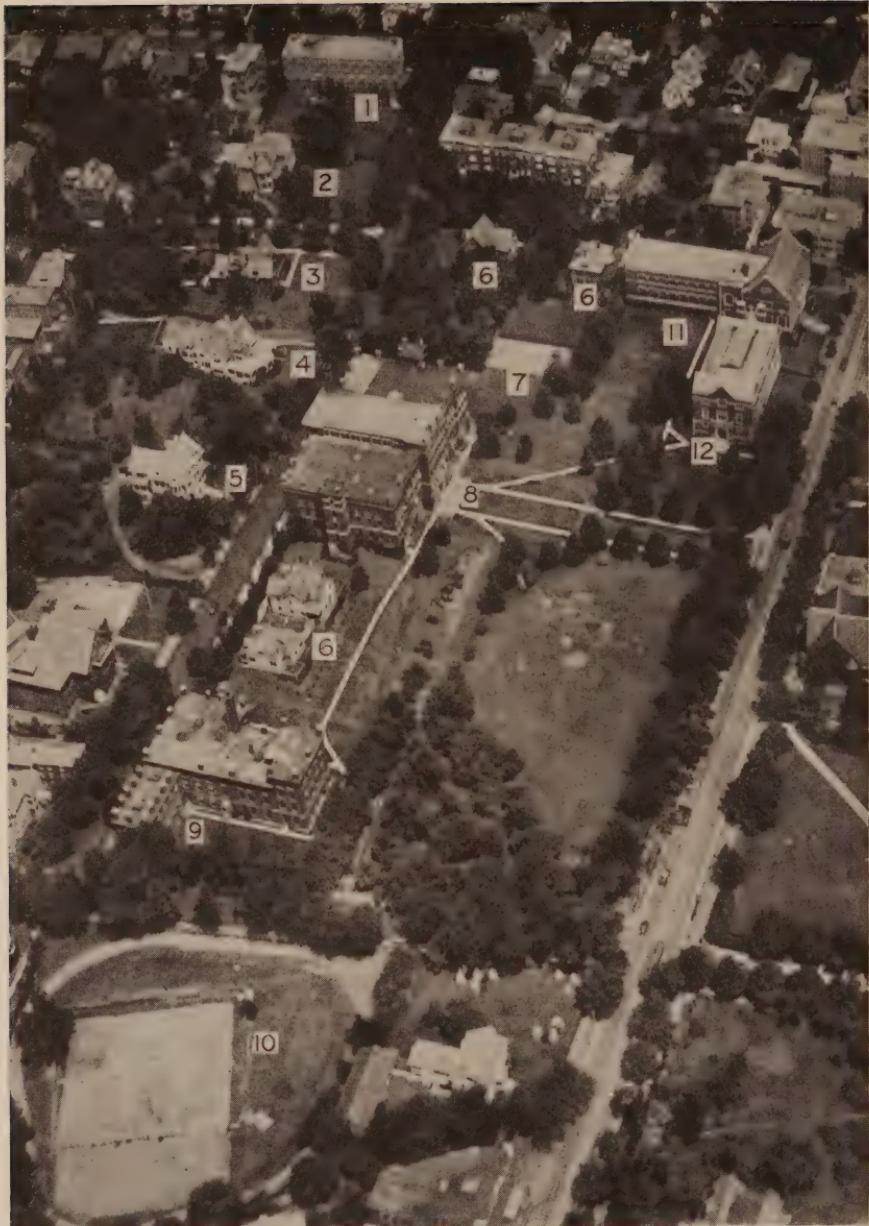
Northeast

Southeast

THIRD FLOOR PLAN
Scale 1" = 10' 0"

ESTABROOK HALL

The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath. Woodland Street extends along the southeast side of the building and Charlotte Street along the northeast side.



Courtesy Worcester Telegram-Gazette

BIRD'S-EYE VIEW OF CLARK UNIVERSITY

- | | | |
|--------------------------|-------------------------|--|
| 1. Estabrook Hall | 5. Faculty House | 9. Chemistry-Physics Laboratory |
| 2. Fanning Hall | 6. Faculty Residences | 10. Old Athletic Field |
| 3. Dean's Residence | 7. Faculty Tennis Court | 11. Library Building |
| 4. President's Residence | 8. Jonas G. Clark Hall | 12. Geography Wing of Library Building |

The new athletic field is about five minutes' walk from the old athletic field.

Sufficient loan funds are available to allow the continuance in college of deserving students. Spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$300.00 should be at the disposal of any man beginning a college course.

College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curricular activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in the gymnasium, and three formal "Proms." College suppers are occasionally held in Estabrook Hall, at which faculty and students meet in a social way. The College supports a Glee Club and Orchestra, trained by professional Musical Directors, and a very successful Dramatic Association, coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the *Clark Monthly*, a magazine which gives opportunity for the publication of their literary productions and serves also as a forum for the expression of college opinion. A weekly newspaper, *The Clark News*, is now in its second year. There are four local and two national Greek letter fraternities, besides several special fraternities and organizations. The Science Club receives enthusiastic support, and a Student Forum offers opportunity for the discussion of present day problems.

Clark has participated in intercollegiate athletics since 1919 and has been particularly successful in basketball. Rugby football is not played, but rapid advance has been made in soccer under competent coaching. The College also provides a baseball coach, and the new athletic field is expected to do much for that sport.



CAMPUS SCENE

Words by
E. Leonard '23

SONS of CLARK

Music by
Chas. Metcalf '22
Arr by D.W.H.

Tenor 1
Ten 2
Melody Bass 1
Bass 2

1. Down in New Eng----land Down in old Wor-cester town,
2. We love her Cam----pus We love her vine clad walls,

Where songs of com-rades gay All sor-rows drown-
We love each hap-py hour spent in her halls

Down where sweet breez-es blow Where flow'rs of friend-ship grow.
How deep that love can flow How sweet those mem'ries grow;

There's where I long to go There I'll find Clark
No one can ever ----know, Save sons of Clark

For Further Information
Address

*The Registrar, Clark University
Worcester, Massachusetts*

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Number 57 December, 1927

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Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in section 103,
Act of October 3, 1917, authorized January 24, 1921.

CLARK UNIVERSITY

SUMMER SESSION 1928

Six Weeks

July 2 to August 10

Preliminary Announcement and Synopsis
of a Course

IN

VISUAL AIDS IN INSTRUCTION"

WILLIAM M. GREGORY, B.S., *Instructor*

ector of Educational Museum of the Cleveland Public
Schools. Professor of Geography, Cleveland
School of Education.

For information about Summer School courses, address:
CLARK UNIVERSITY SUMMER SCHOOL
WORCESTER, MASSACHUSETTS

(Jan 1928)

INTRODUCTORY STATEMENT

Modern education demands new methods and materials in instruction. Visual material is a vital aid in class room activities. Visual methods supply concrete materials and a technique that gives vitality to word symbols and factual information.

The increasing demands for visual instruction has created a need for the training and instruction of teachers in visual apparatus, and appliances. Visual Instruction requires special technique to produce worth-while educational results. Lantern slides, charts, diagrams, pictures and motion pictures must be organized to meet the requirements of the school room. Many schools and museums have definite programs to utilize their collections in public and class room education.

VISUAL AIDS IN INSTRUCTION

This course brings together all sources of visual material and will attempt to determine the methods best adapted to their use. It is designed for the superintendent, principal, auditorium teacher or specialist in Visual Instruction who desire a complete survey of the field of Visual Education. It will emphasize the important problems that arise in the application of visual methods to instruction in the class room and auditorium.

GENERAL STATEMENT

This course provides a definite training and practice in methods of Visual Instruction and their adaptation to school use. It will bring to museum workers, teachers, directors of Visual Instruction, and community center leaders, training in practical methods. It will enable teachers to introduce Visual Instruction into their work and to know where to find the most suitable material and how to use it. To the museum representatives it will give an opportunity of correlating their work more closely with the schools and studying in detail the Visual Education program of other schools and institutions. Through class excursions, group and individual investigations, use may be made of the local institutions as means of Visual Instruction. These visits will include the Worcester Historical Society, the Worcester Art Museum, and various industrial plants. The local physical features provide a variety of topics for outdoor studies.

The course will comprise:

1. General lectures on the principles and practices of Visual Instruction.
2. Discussion of definite problems, sources of material, distribution, cost application etc.
3. Round table; study and criticism of exhibits used by museum and schools in American Cities; methods of adjusting visual material to school curriculum; relative efficiency of visual aids; educational value of motion pictures; methods of circulating visual material; unit sets and their adjustment to the courses of study.
4. Class room experience in planning and using exhibits, still pictures etc.
5. Special field lessons, geographical, industrial etc.
6. Demonstration lessons, using different types of visual materials. Testing the efficiency of the motion pictures, objects, slides and still pictures.

The course will occupy one hour daily for six weeks. The devoted to practical work may be varied to suit the requirements of each student.

VISUAL AIDS IN INSTRUCTION

DETAILS OF COURSE

Principles governing Visual Aids in Instruction.

1. Psychological basis.
2. Economy of time.
3. Accuracy of instruction.
4. References.

Visual Aids in the Modern School.

1. Grades and subjects requiring visual materials.
2. Typical courses of study and their visual contents.

The Key Problems of Visualization in Education.

1. Course of Study—Present relation between visual aids, and courses.
2. Visual Materials—Selection and adaption and tests for efficiency.
3. Teacher—Trained in new Visual Technique.
4. Pupils—Reaction and use of different visual aids.

The visual equipment.

Problems of the large and small school system.

1. Still pictures.
 2. Lantern slides.
 3. Motion pictures.
 4. Exhibits and specimens.
 5. Maps.
- Miscellaneous.

5. General and Specific Standards for selection of visual materials.
 - a. Class room requirements and standards.
 - b. Methods of determining standards.
6. Bibliography of the General Sources of Visual Aids.
 - a. List of lists of government sources.
 - b. List of lists of free materials.
 - c. List of lists of foreign and domestic dealers.
7. The Motion Picture and its educational value.
 - a. Discussion of educational value for class room.
 - b. Commercial motion pictures and their educational influence.
 - c. List of approved entertainment films.
 - d. The talking motion picture in the class room.
 - e. References.
8. Class room Motion Pictures.
 - a. Important class room subjects demonstrated.
 - b. Testing and criticism of several widely used educational films.
9. Adaption of motion pictures to instruction.
 - a. Motion pictures suitable for class use.
 - b. Methods for class room and auditorium.
 - c. Testing and comparison of results.
 - d. References.
10. Sources of motion pictures.
 - a. Lists of tested educational pictures.
 - b. Distribution plans for city, county and state.
 - c. Sources, prices and rentals.
11. Mechanics of motion picture projection.
 - a. The film; standard and narrow width.
 - b. The type of projector; portable and stationary.
 - c. Technique of projection; fire hazards.
 - d. References and manuals.
12. Posters and Wall Pictures.
 - a. Types and uses.
 - b. Sources.
13. Still Pictures.
 - a. Kinds.
 - b. Standards for educational use.
 - c. Methods of using pictures.
 - d. Class room use of pictures.
 - e. References.
 - f. Problems.
14. Organization of Picture Library.
 - a. Unit sets for each subject.
 - b. Organization of sets.
 - c. Mechanical details—mounts, titles, filing, indexing.

Sources of Pictures.

- a. Free sources, advertisers and governmental agencies.
- b. Photograph dealers.
- c. Color prints, domestic and foreign sources.
- d. Miscellaneous.
- e. References.

Field Studies.

- a. Standards for field studies.
- b. Industrial lessons in the factory.
- c. Geographical studies in the field.
- d. Community surveys.
- e. References.

Charts and Graphs.

- a. Class use.
- b. Materials and methods for making charts.
- c. A. B. C. in graphing.
- d. Qualities of a good graph.
- e. References.

Projected Still Pictures—Lantern slides.

- a. Standards for educational purposes.
- b. Sources; domestic, foreign.
- c. References.

Slide libraries in different states and cities.

Lantern slide methods.

- a. Class room.
- b. Auditorium.
- c. References.

Unit Sets of Slides.

- a. Method of organization and relation to courses of study.
- b. Units for different subjects.
- c. Methods of organization of slide library of large and small systems.

Mechanics of lantern slide Projection.

- a. Projectors.
- b. Standards for class room and auditorium.

Screens.

- a. References and manuals.

trip Film and Opaque Projectors.

- a. Value.

Tests of different projection.

Efficiency.

aw Materials and Manufactured Products.

Units of working collections.

Advantages for class use.

Displays, types, cases and value.

Sources of materials and policy of supplying working materials.

References.

24. The Stereograph.
 - a. Advantage of three dimensions.
 - b. Class tests.
 - c. Methods of use.
25. Maps.
 - a. Wall maps.
 - b. Standards for map equipment.
 - c. Scoring Maps and map standards.
 - d. Work Maps and Outline Maps for pupils' use.
 - (a) Map publishers.
 - (b) Government agencies.
 - (c) Societies.
 - f. References.
26. Special Maps and Models.
 - a. Model and block diagrams.
 - b. Lantern slide maps.
 - c. Class room maps.
 - d. Local maps.
27. Elementary Science Materials and Specimens.
 - a. Types of materials in use; elementary and high school.
 - b. Courses of study in relation to objective materials.
 - c. Methods of preparing for distribution, etc.
 - d. References.
28. Museum co-operation in the Public Schools.
 - a. General Policies.
 - (1) Materials for use in class room.
 - (2) Display specimens.
 - (3) Valuable materials in museums.
 - (4) Museum teaching.
 - b. Art Museum.
 - c. Historical Museum.
 - d. Natural History Museum.
 - e. References.
29. The Visual Department in a School System.
 - a. Functions and methods in various cities.
 - b. Organization of materials and staff.
 - c. Checking results.
 - d. Budgets of various cities.
 - e. Plans for both a large and small school system.
30. Training teachers to use visual aids.
 - a. Knowledge of materials.
 - b. Technique in educational methods; demonstration lessons.
 - c. Technique in mechanics of projectors; practice references.

FIELD TRIPS

its to Museums. Massachusetts offers splendid facilities studying the educational programs of museums. Worcester has several museums of national reputation and within short distance of the city are some of the largest museums in the country. It will be possible to visit nearly all of these during the summer session and special visits will be made for those who wish to investigate fully the collections of any institutions.

The class will utilize the facilities of the Worcester Historical Museum and the Worcester Art Museum. A detailed study of the educational program, the displays and the co-operation with the public schools of both institutions. Special projects will be studied and suggestions worked out for their application in both adult education and in work with children. The Museum of the United Steel Corporation will be utilized for materials illustrative of the iron and steel industry. Several important industries of Worcester will give opportunity for class to inspect their plants and processes.

Social Visits. In addition to the local opportunities, the members of the class will have a chance to make specially selected trips to the important museums as follows. Final arrangements will be made to suit the members of the class during the summer session.

1. The University Museum of Harvard which consists of the museums of mineralogy, botany, Museum of Anthropology and Ethnology, Fog Art Museum and the Social Museum.

Harvard Museums offer remarkable facilities to illustrate many different types of museum displays, exhibitions, and co-operation. The materials are very extensive, and an inspection will reveal the many educational possibilities. These visits will be part of the regular class routine.

2. The Boston Museum of Fine Arts with its large collection will be visited and its methods for class instruction and educational co-operation will be studied.

3. The Boston Society of Natural History and its Museum have made valuable contributions to education in the Boston Public Schools. Its program will be carefully explained and the various displays examined.

4. The American Museum of Natural History of New York will be the object of a special Saturday visit and its new School Service Building will be inspected and the comprehensive educational program will be examined.

- e. The State Department of Education of University Extension in Boston will be visited and its education program for visual instruction with adults and the public school will be explained.
- f. A number of local trips to Concord, Deerfield, Springfield, Sudbury and New Haven have been planned for those of the class that wish to utilize their opportunities for field trips while in historic New England.

ANNOUNCEMENT

Clark University Summer School offers courses in a few departments only: Geography, History, Economics and Sociology, Psychology and Education, English, Modern Languages. Professor Gregory's course in "Visual Aids in Instruction" is of special value to teachers of geography and history, two subjects to which Visual Instruction applies with peculiar force.

This special circular has been prepared to show the wide appeal of "Visual Aids in Instruction" to the educational problems of the class room teacher.

If a Summer School Bulletin of Clark University has reached the reader of this circular, a copy will be sent on request. Address: Clark University Summer School, Worcester, Massachusetts.

Clark University Bulletin

NUMBER 58

DECEMBER 1927

The Summer School 1928

July 2—August 10

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	9	10	11	12	Afternoon
BRANDENBURG	Economics *5	Economics 2				
BURNHAM	Geography 191					
BYE			History 151			History 11§
CHURCHMAN						
CURTI	History *23	History *210				
DANIELS	English 2	English 4				
EKBLAW		Geography *27				
GELDARD	Psychology 5					
GREGORY			Education 10			
HODGE			German 1			
ILLINGWORTH			English 15			
JAMES			English 5			
KOEPPE	Geography 12		Geography 122			
LEE			History *21	History *22		
LITTLE					Geology 1	
MCCLELLAN		Geography *280			Geography 181	
RIDGLEY	Geography *28	Geography 102			Geography *280†	
VAN VALKENBURG			Geography 14		Geography 180†	
WILLARD			Sociology 8	Sociology 9	Geography *23	Geography *34
GEOGRAPHY STAFF						Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "SS" before the numeral which distinguishes courses in Summer School from those given during the regular academic year, is omitted.
 § Friday afternoons and Saturdays. † Wednesdays at 3. ‡ M. T. W. Th., at 2.

† Mondays, 3 to 5.

Calendar

- July 2, Monday, 9 A. M. Registration begins.
12 M. Opening Assembly.
8-10 P. M. Reception to Members of the Summer School by the Summer School Faculty.
- July 3, Tuesday, 8 A. M. Lectures and recitations begin.
- July 5, Thursday, 8:30 P. M. Open lecture. "Across Canada with a Geologist." Illustrated. Dean Homer P. Little.
- July 12, Thursday, 8:30 P. M. Open lecture. "Concord and Vicinity." Illustrated. Professor Loring H. Dodd.
- July 19, Thursday, 8:30 P. M. Open lecture. "Visual Instruction in the City School System." Illustrated. Professor W. M. Gregory.
- July 26, Thursday, 8:30 P. M. Open lecture. "The Attempt to Organize World Peace." Professor Merle E. Curti.
- Aug. 2, Thursday, 8:30 P. M. Open lecture. "Thule and the Polar Eskimo." Illustrated. Professor W. Elmer Ekblaw.
- Aug. 9, Thursday, 8:30 P. M. Final Assembly. Conferring of Degrees.
- Aug. 10, Friday. Summer Session closes.
- Aug. 11, Saturday, 8 A. M. Field trips begin.
- Aug. 24, Friday. Field trips end.

All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY

THE DIRECTOR OF THE SUMMER SCHOOL

MESSRS. BLAKESLEE, MELVILLE, MURCHISON

Officers of Instruction and Administration

WALLACE WALTER ATWOOD, PH.D.

B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography. Not in residence in 1928.

DOUGLAS CLAY RIDGLEY, PH.D.

Geography

A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Professor of Geography in Education, Clark University.

WALTER ELMER EKBLAW, PH.D.

Geography

A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Geologist and Botanist, Crockerland Expedition, 1913-17. Associate Professor of Geography and Managing Editor of *Economic Geography*, Clark University.

SAMUEL VAN VALKENBURG, PH.D.

Geography

Ph.D., University of Zurich, 1918. Assistant Professor of Geography, Clark University.

PRESTON EVERETT JAMES, PH.D.

Geography

A.B., Harvard University, 1920; A.M., 1921; Ph.D., Clark University, 1923. Assistant Professor of Geography, University of Michigan.

MYRTA LISLE MCCLELLAN, B.S.

Geography

B.S., University of Chicago, 1912. Assistant Professor of Geography, University of California, at Los Angeles.

CLARENCE EUGENE KOEPPE, A.M. Meteorology and Climatology

B.S., Colgate University, 1914; A.M., Clark

1927. Research Fellow, Clark University, 1927-28.

GUY H. BURNHAM, A.M.

Cartography

A.B., Clark University, 1916; A.M., 1922. Cartographer, Clark University.

- HOMER PAYSON LITTLE, PH.D.** Geology
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910. Dean of the College and Professor of Geology, Clark University.
- MERLE EUGENE CURTI, PH.D.** History
A.B., Harvard College, 1920; A.M., 1921; Ph.D., 1927, Harvard University. Assistant Professor of History, Smith College.
- EDGAR C. BYE, A.M.** History
A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of Social Studies, State Teacher's College, Shippensburg, Pennsylvania.
- DWIGHT ERWIN LEE, A.M.** History
A.B., University of Rochester, 1921; A.M., Harvard University, 1926. Assistant Professor of Modern European History, Clark University.
- SAMUEL J. BRANDENBURG, PH.D.** Economics
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.
- DUDLEY WILSON WILLARD, PH.D.** Sociology
A.B., University of Washington, 1917; A.M., 1922; Ph.D., 1926. Assistant Professor of Sociology, Clark University.
- WILLIAM M. GREGORY, B.S.** Education
B.S., Harvard University, 1904. Professor of Geography, Cleveland Teachers College, Director of Educational Museum of the Cleveland Public Schools.
- FRANK ARTHUR GELDARD** Psychology and Education
A.B., Clark University, 1925; A.M., 1926; Candidate Ph.D., 1928. Assistant in Psychology and Education, Clark University.
- EARL R. K. DANIELS, PH.D.** English
A.B., Clark University, 1914; Ph.D., Harvard University, 1926. Professor of English, State Normal School, Buffalo, N. Y.

ROBERT STANLEY ILLINGWORTH, A.B.	English and Dramatics
A.B., Clark College, 1917; Student, American Academy of Dramatics, 1917-18. Professor of Public Speaking and Director of Dramatics, Lafayette College.	
PHILIP HUDSON CHURCHMAN	French
A.B., Princeton University, 1896; A.M., 1903; Ph.D., Harvard University, 1908. Professor of Romance Languages, Clark University.	
THELKA E. HODGE, B. ED.	German
Head of the Department of Modern Languages, Athol, Mass., High School, 1920-1925.	
EUGENE C. BELKNAP	Source Material in Economic Geography
Curator, Department of Chemistry.	
CAREY EYSTER MELVILLE	Registrar
FLORENCE CHANDLER	Bursar

The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics and Sociology, History and International Relations, Psychology and Education are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, and a knowledge of the history of peoples and of how they make a living as well as an appreciation of social psychology should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

In addition to courses in Geography and allied subjects the Summer School intends to provide at each session as many courses for students whose interests lie outside these fields as the demand and the facilities of the University for giving summer instruction may justify. Such courses are offered for the summer of 1928 in Geology, English, French, and German.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography Workroom are in the Geography Building where some classes are held.

In the Science Building are located the lecture rooms and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the Uni-

versity, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the institution, and affords favorable opportunities for study and research. The Library now owns more than 116,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the circulating Department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 148,000 volumes, and some 223,600 pamphlets. In addition to the Society's valuable manuscript of the Colonial period, it has an unequalled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the Collegiate Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the Collegiate Board.

REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars,

to the Registrar of Clark University. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on July 2. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Monday, July 2, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, July 2, at 12 o'clock. Class work will begin promptly on Tuesday morning.

CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students. Undergraduate courses only are offered in Psychology and Education, foreign languages, and English.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University*.

THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Collegiate Department of the University may secure not more than six semester hours of credit towards the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the Collegiate Board and that programs of study be approved by the Registrar.

THE BACHELOR OF EDUCATION DEGREE

This degree is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent. Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned *in residence* at Clark University. The completion of 120 hours of college credit is required for this degree. The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met. A special circular stating in full the requirements for the Bachelor of Education degree will be sent upon request. Correspondence concerning this degree is invited. Personal conferences with the Director or the Registrar during the Summer School will enable prospective candidates to arrange programs of study for succeeding summer sessions.

THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during four or more sessions, preparing an acceptable thesis, and passing a satisfactory oral examination. Courses intended for graduate credit are designated by an asterisk (*) in the announcement of courses in this Bulletin. *All programs of work to be applied toward the requirements for the degree of Master of Arts should be approved in advance by the major department concerned.*

TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Department of Geography, and the Department of History, see pages 13 and 14.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. This fee is paid only once and is not returnable.

Tuition may be paid at any time before noon of Saturday, July 7. Checks should be made payable to Clark University.

BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary *except bedding*. The Hall is very conveniently located. A number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Early correspondence is invited, as a number of rooms have already been reserved by former students. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, and one or more of the college fraternity houses will probably be available for the accommodation of a limited number of Summer School students.

OUTSIDE ACTIVITIES

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

EXCURSIONS

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett,

Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead, the Wayside Inn; Lexington and Concord; Cohasset, famous for its carillon.

In 1927 excursions were made to some of Worcester's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, and the Whit-tall Rug Factory.

For the coming session trips will be planned to suit the interests of the student body.

ILLUSTRATIVE MATERIALS

Mr. Eugene C. Belknap, Curator, Department of Chemistry, will provide a selection of literature, pictures, and specimens appropriate for use in geography teaching. A general meeting of interested teachers will be called early in the summer session, at which the method of securing such material will be explained. After the first general meeting Mr. Belknap will give special information to groups of teachers or to individuals during the remainder of the term. These materials are displayed in the Chemistry Building. Members of the Summer School should visit the exhibit early in the term in order to appreciate its value and to select material of specific value in their teaching.

DRAMATICS

The public performances of the class in Dramatics, English 5, are among the pleasantest features of the Summer School session. There are always two or three in the fine theater proper of the University and a third, generally scenes from Shakespeare, in the open-air theatre.

THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

FIELD TRIPS IN GEOGRAPHY AND HISTORY

*204. **Transcontinental Field Trip.** Members of this field party will meet at Clark University at the opening of the Summer Session, July 2. One week of intensive study, under the guidance of the instructor in charge, will be given to the geography and the history of the regions to be visited. The party will leave Worcester on Monday, July 9, by de luxe motor coach for a journey of 8,000 miles during a period of seven weeks, returning to Worcester on Friday, August 24.

The itinerary, subject to necessary modifications, is as follows:

West-bound: Worcester, Albany, Erie, Cleveland, Toledo, Chicago, Dubuque, Fort Dodge, Sioux City, Chadron, Casper, Greybull, Yellowstone Park, Idaho Falls, Pocatello, Salt Lake City, Ely, Carson City, Sacramento, San Francisco.

East-bound: San Francisco, Los Angeles, Yuma, Phoenix, Prescott, Williams, Grand Canyon, Flagstaff, Holbrook, Gallup, Albuquerque, Amarillo, Vernon, Dallas, Texarkana, Little Rock, Memphis, Jackson, Nashville, Knoxville, Bristol, Roanoke, Washington, Philadelphia, Atlantic City, New York, Worcester.

Instruction will be centered on points of outstanding interest to teachers of geography and history. Field notes will be kept in systematic form. Maps and guide books for interpretation of the regions will be a part of the equipment. Credit for six semester hours towards a degree at Clark University will be given for the week of preliminary study and satisfactory field notes. Two additional hours of credit will be granted for a satisfactory report on some phase of the field trip acceptable to the instructor. This written report is due on or before January 15, 1929.

This trip will be in charge of Dr. Preston E. James, Professor of Geography, University of Michigan. Dr. James has done extensive individual field work, and has conducted summer field courses for the University of Michigan.

The cost of the trip is \$500, including tuition, transportation by motor coach from Worcester back to Worcester, hotel and meals while on trip. A payment of \$50 is made at time of enrollment. The balance is payable on or before May 5, 1928. Make checks payable to Clark University. Twenty-two students will make up the party. Early correspondence is requested.

FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

Two field trips are offered following the Summer School. Each trip will be made by motor coach with accommodations for twenty-two persons. Both trips begin Saturday, August 11, at 8 A. M., daylight saving time, 7 A. M. Eastern standard time, and continue for two weeks, returning to Worcester on Friday evening, August 24. These trips are open to any teacher or student who wishes to study Geography-out-of-doors whether a member of the Summer School or not. The tuition fee for each trip is \$15; the cost of transportation is \$60; hotel expenses, including meals are estimated at \$60. Persons coming from a distance to join either trip should arrive in Worcester not later than Friday, August 10. Rooms may be obtained near the University. Reservations will be made on request.

All inquiries concerning enrollment, reading lists and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts. As soon as reservation for a trip has been made, the student will be put into communication with the instructor in charge.

Early correspondence is invited, as final arrangements must be completed early in July.

The right is reserved to withdraw either or both of these trips if a sufficient number of advance registrations is not received.

New York State Trip. This trip will make a general survey of the geography of the eastern and central portions of New York state. Fields of special study will include New York City, the Hudson River Valley, the Adirondacks, the Lake Plain, Watkins Glen and the Finger Lakes, the Catskills, historic and literary places of note; a study of the natural environment, with definite relationship to human activities.

The route: Worcester, Hartford, New Haven, New York, Newburgh, Albany, Saratoga Springs, Glens Falls, Ticonderoga, Port Henry, Plattsburg, Saranac Lake, Potsdam, Ogdensburg, Watertown, Oswego, Rochester, Geneva, Watkins, Ithaca, Auburn, Oneonta, Cooperstown, Albany, Pittsfield, Springfield, Worcester. This trip will be in charge of Mr. G. H. Burnham, of Clark University.

Dutch and Quaker Colonies Field Trip. This trip will cover the history and historical geography of the lower Connecticut

and Hudson Valleys and of the region around New York City and Philadelphia during the colonial and revolutionary periods, with incidental attention to other interesting matters en route. The route: Worcester, Greenfield, Northampton, Springfield, Windsor, Hartford, Saybrook, New London, New Haven, White Plains, Tarrytown, New York City, Monmouth, Princeton, Washington Crossing, Trenton, Bordentown, Burlington, Camden, Philadelphia, Chester, Wilmington, Chads Ford, Valley Forge, Bethlehem, Easton, Delaware Water Gap, Port Jervis, West Point, Kingston, Albany, Mohawk Trail, Greenfield, Worcester. Special subjects of study: Settlement of the Connecticut, Hudson and Delaware valleys and the American Revolution in the New York and Philadelphia regions. This trip will be in charge of Professor Edgar C. Bye, of the Clark University Summer School faculty.

CREDIT FOR FIELD TRIPS

Two semester hours of credit toward a degree at Clark University will be granted for each trip and satisfactory field notes. An additional hour will be granted for an acceptable geographic study of some phase of the field investigation. This study may be an essay of three thousand words or more, or in other form satisfactory to the instructor. The written report is due on or before January 15, 1929.

DEPARTMENTAL ANNOUNCEMENTS

The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.

GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the Geography Workroom.

Courses marked with an asterisk (*) are primarily for advanced students.

SS101. Geography of North America. A study of the continent based upon human use regions; the relationships of these regions—physiographic, climatic, soil, and plant; the adaptations of man's activities to various physical factors and the distinctive industries and communities arising from them.

Daily, except Saturday, at 11.

MR. EKBLAW

***SS23. Geography of Asia.** In the first half of the course Asia will be treated as a whole from different geographical points of view: its structure and relief, its climate and natural vegetation, its races (migration, historical development and their present distribution), and the present economic activities as regards agriculture, stockraising, industry, etc. In the second half the more important parts of Asia (Japan, China and India) will be studied more in detail. Important problems for the Far East such as influences of religion on human activities, the danger of overpopulation, and modern colonial systems will be discussed.

Daily, except Saturday, at 12.

MR. VAN VALKENBURG

SS102. Geography of a World Cruise. The route of travel around the world; latitude, longitude, and time as experienced on

the ship; weather conditions as observed and recorded; ports and countries visited; activities of the people in relation to their natural environment; food, clothing, shelter in relation to geographic conditions; adjustment of travelers to changing conditions of the cruise; inland journeys; methods of transportation; scenery; utilization of land as observed. The study will follow closely the actual journey of the First College Cruise around the World, September 18, 1926, to May 2, 1927. It will be especially suited to the needs of those who teach Europe, Asia, and Africa in the elementary school or junior high school.

Daily, except Saturday, at 9.

MR. RIDGLEY

SS14. Economic Geography. The study of a selected group of commercial products from a world standpoint. Geographic conditions underlying production, trade and manufacture of these commodities.

Daily, except Saturday, at 10.

MR. VAN VALKENBURG

SS12. Weather. This is essentially a laboratory course in which the laboratory is the outdoors. Daily observations of the weather are made, with and without instruments; and a small balloon is sent up before each meeting of the class. Upon these observations is based a systematic study of elementary meteorology and of weather forecasting. The course is planned to give the student an appreciative understanding of weather conditions and processes, and to offer a sound basis for further study in the fields of meteorology and climatology.

Daily, except Saturday, at 8.

MR. KOEPPPE

SS122. Climates of the World. A preliminary study is made of the world distribution of the various climatic elements, followed by a brief discussion of types of climate. A study is then made of the climates of the various continents and islands of the world, with special emphasis upon some of the causes of those climates, and of their effect upon man. At the conclusion of the course, climatic regions are determined and discussed. The course is planned to be of immediate value to all teachers of geography, and to give a substantial foundation for a more intensive study of climatology.

Daily, except Saturday, at 10.

MR. KOEPPPE

SS181. The Teaching of Geography. This course will include a discussion of the fundamental purposes of geography as an

instrument of instruction; the outlining of the basic principles involved in its teaching; a comparison of the values of the different methods of presentation; the assembling and discussion of all the types of aids useful in presenting the subject and testing for results; an analysis of recent courses of study.

Daily, except Saturday, at 11.

MISS McCLELLAN

SS180. Materials in Geography. A study of geography exhibits available in the University. Preparation of typical exhibits for class room use. A study and classification of printed matter from various sources. Group conferences and individual conferences. Enrollment is made by obtaining approval of Mr. Ridgley and assignment of laboratory space in the Chemistry Building by Mr. Belknap.

Mondays, 3 to 5 P. M.

MR. RIDGLEY AND MR. BELKNAP

SS191. Graphics and Cartography. This course will aim to help teachers to a better understanding of graphic methods and map projections. Some time will be spent in the construction and discussion of charts, graphs, and diagrams, but the major part of the course will be devoted to cartography. The more important map projections will be drawn and their advantages and disadvantages discussed. This work will be supplemented by a survey of the map and atlas collection in the Geography Workroom.

Daily, except Saturday, at 8.

MR. BURNHAM

SS190. Mathematical Geography. A study of the earth's relations to the sun, moon, and other heavenly bodies and their influence on human life. The seasons, changing length of day and night, latitude, longitude, time, and the calendar, receive attention. The principal constellations will be observed and studied. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Daily, except Saturday, at 12.

MR. BURNHAM

SS11. Field Work in Geography. To meet a demand for training in field observations this course is so planned that the students will engage in a program of intensive survey of a typical New

England town and of reconnaissance study of several typical regions of New England. Friday afternoons will be devoted to the intensive studies in the field, while Saturday will be reserved for the longer trips which will be by motor bus. The reconnaissance study includes a representative section of the New England Upland and the Harvard Forest at Petersham; the Clinton-Harvard apple growing district and Mt. Monadnock; the Sudbury and Boston Basins and the Metropolitan environs of Boston to Cohasset; the industrial conurbation of the lower Blackstone Valley and Narragansett Bay Region and the resort development about Newport, R. I.; and, if time permits, the unique and distinctive communities of Cape Cod to Provincetown. Students planning to take this course must reserve Friday afternoon and all day Saturday of each week. Students not registered in the course for credit may join the Saturday trips with profit. Transportation costs for the Saturday trips will be about three dollars per student for each trip.

Friday afternoon, and all day Saturday.

MR. EKBLAW

*SS27. **Influences of Geographic Environment.** A review of geographic factors in history, classes of geographic influences, society and state in relation to the land, and movements of peoples in their geographical significance; location, area, boundaries, coasts, oceans, and seas, as factors in human activities; the anthropogeography of rivers, continents and their peninsulas, islands, plains, steppes, and deserts, and mountain barriers and their passes; the influence of mountain environment, and of climate.

Daily, except Saturday, at 9.

MR. EKBLAW

*SS28. **Geography in Education for Special Teachers.** A general view of geography throughout the educational system. Each member of the class may select for special study topics in teaching or supervision of direct value in next year's work, making detailed investigation and reporting to the class. This furnishes opportunity for working out courses of study, lesson plans, and other topics of individual interest. A few illustrative field lessons. The library and geography workroom are well equipped for pursuit of this course.

Daily, except Saturday, at 8.

MR. RIDGLEY

*SS280. **Laboratory Course in the Teaching of Geography.** This course is designed primarily for teachers especially interested in the dynamics of geography teaching. A group of twenty-two selected

sixth grade children will be taught daily during the session for demonstration. The discussions and research of this course will be based upon problems which are the outgrowth of this observation.

Although the major part of the demonstration teaching will be borne by the instructor, it is expected that only such students will enroll for the course as are willing to be assigned to present some special phase of geography teaching for the observation of the class. Enrollment necessarily limited to 25.

Demonstration hour, daily, except Saturday, at 9.

Discussion hour, daily, except Friday and Saturday, at 2.

MISS McCLELLAN

*SS204. Transcontinental Field Trip. See page 13.
July 2 to August 24.

MR. JAMES.

New York State Field Trip. See page 14.
August 11 to August 24.

MR. BURNHAM

Dutch and Quaker Colonies Field Trip. See page 14.
August 11 to August 24.

MR. BYE

*SS30. Seminar in Geography. Discussion for graduate students of geography; review of recent publications. Reports on thesis work.

Wednesday at 3. THE GEOGRAPHY STAFF

*SS300. Research in Regional Geography. For students who are prepared and ready to undertake thesis work in partial fulfillment of the requirements for a graduate degree.

MR. EKBLAW

*SS32. Research in Climatology. For properly qualified graduate students only.

MR. KOEPPE

*SS34. Research in Economic Geography.

MR. VAN VALKENBURG

Home Study in Geography. Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school, have made rapid progress in

home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. A bulletin describing all courses offered will be sent on request. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
2. The Teaching of Home Geography and World as a Whole.
3. The Teaching of North America.
4. The Teaching of South America, Europe, and Asia.
5. The Teaching of Geographic Factors and the United States in its World Relations.

ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Geography of the Eastern Continents.
11. The Physical Geography of the Lands.
12. Weather.
13. Elements of Climatology.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Students of the Summer School may obtain full information about Home Study Courses and examine sample lessons at any time in the office of the Home Study Department, Room 101, first floor of Jonas G. Clark Hall.

GEOLOGY

SS1. Physical Geology. About one third of this course will be given over to a study of the common minerals and rocks which one is likely to see on cross-country tramps or to have brought into the school room for identification. The balance of the course will

be spent in a systematic study of the work of wind, water, ice, and sub-surface forces, in modifying the surface of the earth. The course may best be summarized as a scientific study of the origin of scenery. Special emphasis will be placed in the laboratory on obtaining mastery of the topographic map.

Four lecture-recitation periods at 12 and one afternoon laboratory period weekly.

MR. LITTLE

HISTORY

*SS21. **The History of Europe, 1500 to 1815.** After a brief introduction dealing with the Italian Renaissance and its significance, the Reformation, the history of France and the developments leading to the French Revolution will be particularly emphasized. The decline of Spain, the rise of the British Empire, and the rise and development of Prussia and Russia will also be touched upon.

Daily, except Saturday, at 10.

MR. LEE

*SS22. **European International Relations, 1870-1925.** A study of diplomatic history of Europe from the period of the formation of the German Empire to the present time. Bismarck's system of alliances, the developments in the history of the Eastern Question, the formation of the Franco-Russian alliance and the subsequent Triple Entente will be especially studied in the light of recent diplomatic revelations. Some study of the peace settlement and the conferences and agreements ending with the arrangements at Locarno will conclude the course.

Daily, except Saturday, at 11.

MR. LEE

*SS23. **American Intellectual History, From the Colonial Period to the Present Time.** The purpose of the course is to describe and explain the development of the American mind. Emphasis will be put on the influence of such conditioning factors as the frontier environment and European movements, including Puritanism and the Industrial Revolution. Topics discussed will include religion and morals, justice, charity, education, science, the fine arts, superstitions, and distinctive American attitudes and opinions, with the agencies for their transmission. Lectures, discussions, and reports.

Daily, except Saturday, at 8.

MR. CURTI

*SS210. **American History, 1783-1865.** The period will be surveyed from the point of view of conflicting class and geographical

interests in American life, especially as they affected foreign relations, constitutional problems, and political controversies. Emphasis will be put on the interpretation of facts rather than on the facts themselves. Lectures, readings, and discussions.

Daily, except Saturday, at 9.

MR. CURTI

SS151. Problems in American Government. This is the second part of a course, the first part of which was offered as SS15 in the summer of 1927. SS15 included a study of problems involving the people and the national government, the states and the national government, and the national executive. SS151 will include problems concerning the national Congress, the national judiciary and state and local governments. The problems selected will be problems of current interest to teachers of American history and civics and to others interested in American government. Either SS15 or SS151 may be taken separately and students wishing to take both parts may begin with either.

Daily, except Saturday, at 10.

MR. BYE

SS16. The Teaching of History in Junior and Senior High Schools. The technique of teaching history will be presented as the direction of learning rather than the imparting of information. The course deals with the practical problems of the classroom: supervised study, the inductive recitation, the socialized recitation, projects, visual aids, dramatization, the selection and use of textbooks, drill and review, testing, marking and the teaching of current history. Reading, reports and discussions. The course will be conducted in a classroom containing an exhibit of materials for the teaching of the social studies.

Daily, except Saturday, at 12.

MR. BYE

SS11. Field Work in History. This course is for teachers and others who wish to take advantage of the rich possibilities which New England affords for the study of historical and literary events in their original settings. The five trips listed below will be under the direction of the history department, but an instructor in geography will be present to give valuable collateral instruction. Students planning to take this course must reserve Friday afternoon for class meetings and local field studies, and all day Saturday of each week for the motor-coach excursions. Persons who do not wish to take

the course for credit may be admitted to any or all of the excursions upon payment of transportation charges which will be about three dollars per student for each trip. The proposed Saturday trips for the summer of 1928 are as follows:

Field Study No. 1. Plymouth, Duxbury, Marshfield, Quincy. A study of the existing remains of the life and history of the Plymouth colony, with incidental stops at the Daniel Webster estate in Marshfield and the homes of the Adams's in Quincy.

Field Study No. 2. Salem, Danvers, Marblehead. A study of the Puritans, with especial attention to the witchcraft delusion and of Hawthorne's Salem, with incidental attention to events in the Revolutionary period and the Marblehead fisheries.

Field Study No. 3. Cambridge, Lexington, Concord, Sudbury. The primary purpose of this excursion will be to study the opening events of the Revolution together with the wealth of literary homes and associations in Cambridge, Concord, and at the Wayside Inn.

Field Study No. 4. Boston. Emphasizing the Revolutionary period but with time to see many interesting places belonging to other historic and literary periods.

Field Study No. 5. Providence and Newport. Special attention will be given to the founding of Rhode Island and the events of the Revolution, but there will be ample opportunity to enjoy the beauties of this wealthy resort of today.

Friday afternoon, and all day Saturday.

MR. BYE

*SS204. Transcontinental Field Trip. See page 13.
July 2 to August 24.

MR. JAMES

Dutch and Quaker Colonies Field Trip. See page 14.
August 11 to August 24.

MR. BYE

New York State Field Trip. See page 14.
August 11 to August 24.

MR. BURNHAM

ECONOMICS AND SOCIOLOGY

SS2. Problems of Economics. This course is complementary to Economics SS1a offered in the summer of 1927. The latter course stressed fundamental economic principles which underlie the

production, valuation and distribution of economic goods; the present course will take up specific economic problems such as wages, standards of living, ideals and practices of organized labor, transportation, banking and credit, taxation and other topics of historical and contemporary interest. The topics are selected not merely to illustrate economic principles, but also for the purpose of building up a better understanding of modern economic society. The course should be illuminating to teachers of economics, sociology, civics, history and current events, as well as to those with a less specialized interest in economic and social life.

SS1a and SS2 may be taken separately; students wishing to take both parts may begin with either.

Daily, except Saturday, at 9.

MR. BRANDENBURG

*SS5. **The Tariff in Theory and Practice.** The course opens with a study of the fiscal and protective aspects of the tariff, together with the economic principles involved in tariff policies, followed by an examination of current popular arguments for and against protection. It will trace briefly the development of tariff policy in the United States with special emphasis on the period since the Civil War. Particular attention will be given to the influence of American tariff policies on the economic life of New England—its past development and present trends. Selected New England industries will be studied in an effort to understand how population, wages, markets, transportation systems, entrepreneurial efficiency, and the utilization of natural resources have been affected by our tariff policies. Teachers of economics, civics, or American history and students of our economic development and trends should find the work worth while. The course will proceed by means of lectures, readings, discussions and reports on assigned topics. A knowledge of fundamental economic principles is desirable.

Daily, except Saturday, at 8.

MR. BRANDENBURG

SS8. **Educational Sociology.** This course will include such topics as the contributions of sociology to education; the social origins and aims of education; problems of educational adjustment calling for a unifying social philosophy of education; changes in curricula, school organization, child accounting, educational extension, etc.; social factors in the professional improvement of teachers, in the pupil population, and in the support of public education. Intended for teachers and those preparing to teach.

Daily, except Saturday, at 10.

MR. WILLARD

***SS9. Social Problems.** Chief emphasis will be centered upon a survey of selected social problems, including phases of the health problem, certain aspects of child welfare, problems of domestic, industrial and civic efficiency, with special emphasis upon their implications for education. The course will also include an historical outline of the past relations of education to problems of social welfare. This course should prove of interest to teachers and others who wish to participate in the growing alignment of education and professional social work. It should be of value to those interested in revision of curricula, and any, in general, who wish to see the social implications of many phases of modern school practice made explicit in programs of professional education and school control.

Daily, except Saturday, at 11.

MR. WILLARD

PSYCHOLOGY AND EDUCATION

SS5. The Problem of Learning. A critical and experimental study of the chief problems of learning and memory. There will be a detailed examination of the literature bearing directly upon the general problem, together with a discussion of the bearing of experimental results on more general educational problems.

Daily, except Saturday, at 8.

MR. GELDARD

SS9. Classroom Activities and Equipment. Psychological principles involved in the use of objective materials. The relation of objective materials to training in observation, stimulation of imagination, development of vocabulary and translation of activity into words. Educational values of factual material as the basis of experience. The school excursion, introduction to maps, exhibits, charts, and other visual aids. Sources of objective equipment. School collections, their organization for small and large systems. Objective methods with various types of pupils in elementary and advanced groups. Plans and illustrative lessons for classroom and auditorium.

Problems in vitalizing the key subjects. Necessary conditions and equipment for dramatizing and socializing. Various types of activity in geography, history, general science, agriculture, industry, number work, language, and literature. The utilization of resources of the community, the library, museums, industries, and national governmental sources. Lectures, discussions, excursions, and observation of classes.

Daily, except Saturday, at 12.

MR. GREGORY

SS10. Visual Aids in Instruction. The principles controlling the educational use of visual aids. The relation of the pictorial and objective presentation to the imagination, to interest and to learning. Problems of the visual aids in instruction. The relation of visualization to the different subjects. The equipment required and the sources of visual aids, comparative costs and effectiveness of different aids. Standards of selection and various types of organization for effective use. Methods of using and judging the instructional value of: Motion pictures, lantern slides, exhibits, raw materials, etc. Comparison of methods for auditorium and classroom. The course should be of interest to teachers of geography, history, nature study, science and any of the objective subjects of the grades. Demonstration lessons, conferences, lectures and practice for each student.

Daily, except Saturday, at 10.

MR. GREGORY

S11. Tests and Measurements Applied. The course will give a rapid resumé of the best available standardized tests, both mental and educational. Special emphasis will be placed upon: use of test results; improvement of teachers' examinations; improvement of marking systems; the place of measurement in education; the unmeasureable outcomes of teaching.

Daily, except Saturday at 11.

MR. GELDARD

See also the following courses:

The Teaching of Geography. Page 17. **MISS McCLELLAN**

Geography in Education for Special Teachers. Page 19.

MR. RIDGLEY

Laboratory Course in the Teaching of Geography.

Page 19. **MISS McCLELLAN**

The Teaching of History in Junior and Senior High Schools.

Page 23. **MR. BYE**

ENGLISH

SS2. Studies in Romanticism: Shelley and Keats. This course will cover the important works of each writer, and will try to bring out first, their individual qualities as poets; and, secondly, their contribution to the theory of Romanticism. In a sense, it is a continuation of the course in Wordsworth and Coleridge, offered

in the 1927 Summer Session; but it may be taken by students who have not had that work.

Daily, except Saturday, at 8.

MR. DANIELS

✓ SS4. Contemporary Fiction, British and American. A study of the outstanding and representative writers of our day. Lectures, critical papers, class discussion.

Daily, except Saturday, at 9.

MR. DANIELS

✓ SS5. Dramatics. The course is designed primarily to give training in dramatic expression. Further, it takes into consideration the allied arts of the theatre; the function of stage settings; the procedure in mounting a play; the evolution of the design through sketches and miniature models; costume; properties; make-up, pantomime, rehearsals, directing, choice of play, and theatre organization and management. The student is familiarized with all the responsibilities of play production. There will be class productions and at least one public performance.

Daily, except Saturday, at 11.

MR. ILLINGWORTH

SS15. Fundamentals of Public Speaking. A course in the composition and delivery of speeches. Practice in impromptu speaking. The student is taught to breathe correctly; exercises are given to overcome speech defects; relation of speaker to audience; psychology of public address, posture, movement, gesture, pronunciation and enunciation, methods of preparing a speech, and vocabulary building. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

Daily, except Saturday, at 10.

MR. ILLINGWORTH

FRENCH

SS1. Elementary French. Grammar, pronunciation through phonetic approach, oral work. Especial attention given to the development of reading ability. Texts: Churchman, *The Phonetic Approach to French*; Hacker, *A French Grammar*.

Daily, except Saturday, at 11.

MR. CHURCHMAN

SS2. Reading of French Prose. The object of the course is to develop the power of rapid and accurate reading of modern French. Collateral reading of modern literature and reports from the more advanced students. This course must, of necessity, be flexible and an endeavor will be made to adapt it, so far as possible, to the needs of the individual students. Texts: Clavel, *Terres et Gens de France*; Buffum, *Contes Francais*, or texts of similar nature.

Daily, except Saturday, at 12.

MR. CHURCHMAN

GERMAN

SS1. Elementary German. Rapid survey of grammar essentials; writing of easy sentences to fix form and the principles of syntax in the mind; reading of simple prose. A course designed especially for mature students who can give a large share of their time during the session to this work.

Daily, except Saturday, at 10.

MRS. HODGE

SS2. Grammar Review and Reading of German Prose. This course is designed to meet the needs of students who have some knowledge of German and who wish to increase their ability to read with accuracy and ease. The reading will be accompanied by a systematic review of the essentials of grammar, with much oral and some written practice. The works read will depend on the ability and needs of the members of the class. Special work in scientific German may be introduced. As far as possible the work will be modified and adapted to the individual needs of each student.

Daily, except Saturday, at 9.

MRS. HODGE

NOTE: If there should be a sufficient demand, a third more advanced course may be offered for students who have attained some proficiency in the language; a course conducted entirely in German and covering the following points: an analytical study of the language, free composition and essays, oral themes, telling stories, dramatics and folk-songs, and free discussion of the subject matter read in class or at home.

Degrees, diplomas or other certificates of liberal or professional training with sources and dates

Tentative List of Summer School Courses which Applicant desires to enter.

(Describe by Subject and Number, i.e., Geography 101)

If you are not a graduate of a college, technical, normal, or secondary school, not a college student, and not a teacher, send a letter with this application stating your qualifications for the work which you desire to do.

MATERIALS IN GEOGRAPHY

During the Summer School of 1927, a course for credit was offered under the title, "Materials in Geography." Students enrolled in this course were furnished with an abundance of free literature of a geographical nature from transportation lines, tourist bureaus, manufacturing concerns and other sources. At the urgent request of the Summer School students of 1927, Clark University is now undertaking to assemble and distribute literature of special value to teachers and pupils of geography. The transportation companies and manufacturing concerns are extending most cordial assistance in this co-operative effort.

A package of pamphlets and booklets of value in geography will be sent to any address on receipt of \$1.00 to cover cost of selecting and packing the material and the cost of transportation. Each package will be sent postpaid. This opportunity for securing a good assortment of material is extended to any school or any teacher.

Exhibits of important products such as cereals, cotton, silk, lumber, spices, and other common commodities will be furnished at cost of preparation. A list of available exhibits and cost of each will be sent to any school or any teacher on request. Address, Clark University Summer School, Worcester, Massachusetts.

ENROLLMENT FORM

Students at previous sessions of this Summer School need furnish only name and address and tentative list of courses desired.

Please do not write above this line

To the Registrar of Clark University:

I wish to be enrolled as a student in the Summer School for 1928, and enclose with this the Registration Fee of two dollars.

Name

Address

Date

Occupation during the past academic year

If teaching or studying, where?.....

TWO BIBLIOGRAPHIES AND A MONOGRAPH FOR TEACHERS OF GEOGRAPHY

Two bibliographies of value to teachers of geography have been prepared while their authors were graduate students in Clark University School of Geography. These bibliographies offer teachers, supervisors, and superintendents recent and reliable information concerning the published materials available for the reading and study of teachers and pupils. A monograph on place geography by Douglas C. Ridgley, Professor of Geography in Education, Clark University, has just been issued.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography*. Fifth Revised Edition. 1927. Price 25c. More than 600 references to books and magazine articles are classified under 22 topical headings. The list of books from which references are taken constitute a select list for any library. The magazine references are brought forward in this revision to May, 1927.
2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School*. 1926. Price

ORDER BLANK

Clark University Summer School,
Worcester, Massachusetts.

Please send to me the explanatory statement and sample lessons of the Home Study Course entitled:

Title of Course

See page 21 for list of titles

Name

Address

Position

Please fill out the desired items on opposite page

25c. More than 500 books suitable for reading by pupils of the elementary school and the junior high school are listed. Annotations give the chief characteristics of the books, and indicate the grades for which the books are suitable.

3. Douglas C. Ridgley: *A Study of Children's Learning about Places*. 1928. Price 80c. This monograph of 128 pages presents the results of an extensive investigation of pupil interest in place geography based on the cooperation of 127 teachers and 5,544 pupils. The study is of immediate interest and practical value to teachers of geography and history. It will aid teachers to give place geography its proper place as a necessary part of the regular courses in geography and history. Thirty graphs and twelve tables based on reports from 5,544 pupils are interpreted in a way to enable teachers to make place geography function in the learning processes in geography and history.

These three publications will be sent to any address, postpaid, for \$1.00, in a single order.

Address, Clark University Summer School, Worcester, Massachusetts.

You may also send the items checked on this form:

- [] Home Study Bulletin. No charge.
- [] Annual Catalogue of Clark University. No charge.
- [] Statement of the requirements for the degree of Bachelor of Education at Clark University. No charge.
- [] List of exhibits with prices. No charge.
- [] Enclosed find \$1.00 for selected materials for teaching geography.
- [] Enclosed find 25c for Branon's Bibliography.
- [] Enclosed find 25c for Knight's Bibliography.
- [] Enclosed find 80c for Ridgley's Monograph on Place Geography.
- [] Enclosed find \$1.00 for the 3 foregoing publications.
- [] Enclosed find \$2.00 for the selected materials and for the 3 publications.

Please give name and address on opposite side

Registrar's Copy
for Corrections

Clark University Bulletin

Catalogue Number

1927 - 1928.



Worcester, Massachusetts
February, 1928

Clark University Bulletin

NUMBER 60

FEBRUARY 1928

Catalogue Number

The Catalogue is a record for the current academic year, 1927-28. Such announcements for the year 1928-29 as can be made at the time of publication are included.

The Bulletin is published in January, February, March, April, May, June, October, November, and December

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

Historical Note

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagreness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.

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1927

JULY

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CALENDAR

The academic year begins on the fourth Thursday in September. Commencement Day is the thirty-eighth Monday following (the second or third Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

1927

Sept. 22.	Thursday	Academic year begins. Registration day.
Oct. 1.	Saturday	Last day for payment of term bills. Last day for changes in undergraduate programs.
Oct. 12.	Friday	Columbus Day. A holiday.
Oct. 29.	Saturday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1928.
Nov. 19.	Saturday	Mid-semester reports.
Nov. 23.	Wednesday	Thanksgiving recess begins at 1 P. M.
Nov. 28.	Monday	Thanksgiving recess ends at 8 A. M.
Dec. 15.	Thursday	Last day for receiving applications for the income of special funds for graduate students.
Dec. 17.	Saturday	Christmas recess begins at 1 P. M.

1928

Jan. 3.	Tuesday	Christmas recess ends at 8 A. M.
Jan. 19.	Thursday	Semester examinations begin at 2 P. M. Last day for registration for second semester.
Jan. 28.	Saturday	End of first semester. Last day for receiving applications for undergraduate scholarships for the second semester
Jan. 30.	Monday	Second semester begins.
Feb. 1.	Wednesday	Founder's Day. Not a holiday.
Feb. 4.	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June 1928.
Feb. 8.	Wednesday	Last day for payment of term bills.
Feb. 22.	Wednesday	Washington's Birthday. A holiday.
Mar. 1.	Thursday	Last day for receiving applications for graduate scholarships and fellowships for 1927-28.
Mar. 24.	Saturday	Mid-semester reports.
Apr. 14.	Saturday	Spring recess begins at 1 P. M.
Apr. 23.	Monday	Spring recess ends at 8 A. M.
May 5.	Saturday	Sub-Freshman Day.
May 12.	Saturday	Theses for degree of Master of Arts are due.

May	30.	Wednesday	Memorial Day. A holiday.
May	31.	Thursday	Semester examinations begin at 2 P. M.
June	2.	Saturday	Dissertations and theses for graduate degrees are due at the office of the Secretary of the Graduate Board.
June	7.	Thursday	Last day of semester examinations.
June	11.	Monday	Commencement Day.
July	2.	Monday	Summer School opens. Registration day.
July	7.	Saturday	Last day for payment of Summer School tuition.
Aug.	9.	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug.	10.	Friday	Summer School closes.
Sept.	27.	Thursday	Academic year begins. Registration day.
Oct.	6.	Saturday	Last day for payment of term bills. Last day for changes in undergraduate programs.
Oct.	12.	Friday	Columbus Day. A holiday.
Oct.	27.	Saturday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1927.
Nov.	24.	Saturday	Mid-semester reports.
Nov.	28.	Wednesday	Thanksgiving recess begins at 1 P. M.
Dec.	3.	Monday	Thanksgiving recess ends at 8 A. M.
Dec.	15.	Saturday	Last day for receiving applications for the income of special funds for graduate students.
Dec.	22.	Saturday	Christmas recess begins at 1 P. M.
1929			
Jan.	7.	Monday	Christmas recess ends at 8 A. M.
Jan.	24.	Thursday	Semester examinations begin at 2 P. M. Registration day for second semester.
Feb.	1.	Friday	Founder's Day. Not a holiday.
Feb.	2.	Saturday	End of first semester.
Feb.	4.	Monday	Last day for receiving applications for undergraduate scholarships for the second semester.
Feb.	9.	Saturday	Second semester begins.
Feb.	13.	Wednesday	Last day for changes in undergraduate programs.
Feb.	22.	Friday	Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June 1927.
Feb.	22.	Friday	Last day for payment of term bills.
Mar.	1.	Friday	Washington's Birthday. A holiday.
Apr.	6.	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1927-28.
Apr.	13.	Saturday	Mid-semester reports.
Apr.	22.	Monday	Spring recess begins at 1 P. M.
			Spring recess ends at 8 A. M.

- May ~~Tue~~ 10. ~~Saturday~~ ~~Monday~~ Sub-Freshman Day.
- May 15. Wednesday Last day for submitting theses for degree of Master of Arts to the departments.
- May 30. Thursday Memorial Day. A holiday.
- June 6. Thursday Semester examinations begin at 2 P. M.
- June 10. Monday Theses for M. A. degrees are due at the office of the Secretary of the Graduate Board.
- June 13. Thursday Last day of semester examinations.
- June 14. Friday Ph. D. dissertations are due at the office of the Secretary of the Graduate Board.
- June 17. Monday Commencement Day.

BOARD OF TRUSTEES

FRANCIS H. DEWEY (1904),	Vice President and Treasurer Worcester, Mass.
HERBERT PARKER (1907)	South Lancaster, Mass.
ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
ALFRED AIKEN (1919)	Worcester, Mass.
GEORGE H. MIRICK (1920), Secretary	Worcester, Mass.
FREDERICK B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD
Librarian and Curator of the Art Collection	L. N. WILSON
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of the Home Study Department	D. C. RIDGLEY
Registrar	C. E. MELVILLE
Bursar	FLORENCE CHANDLER

University Staff

For Summer School Faculty see page 79

- WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.
President, 1920-. Professor of Physical and Regional
Geography. Director of the Graduate School of Geog-
raphy. Editor, *Economic Geography*.
B.S., University of Chicago, 1897; Fellow, Assistant, and Asso-
ciate, 1889-1903; Ph.D., 1903; Instructor and Assistant Professor
of Physiography and General Geology, 1903-10; Associate Pro-
fessor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. In-
structor, Chicago Institute, 1900-01. Professor of Physiography,
Harvard University, 1913-20. Geologist, U. S. Geological Survey.
Fellow, American Academy of Arts and Sciences. Member, Geo-
logical Society of America, American Antiquarian Society, Chi-
cago Academy of Sciences and the Association of American Ge-
ographers. President, National Council of Geography Teachers,
1920-21.
- WILLIAM EDWARD STORY, PH.D. 17 Hammond St.
Profesor of Mathematics, 1889-1921. Professor
Emeritus.
- LOUIS N. WILSON, LITT.D. 11 Shirley St.
Librarian, 1889-. Custodian of the Art Collection.
Litt.D., Tufts College, 1905.
- HENRY TABER, PH.D. 2 Pleasant Place
Professor of Mathematics, 1903-21. Professor Emeri-
tus.
- WILLIAM HENRY BURNHAM, PH.D. 20 John St.
Professor of Education and School Hygiene, 1906-26.
Professor Emeritus.
- BENJAMIN SHORES MERIGOLD, PH.D. 166 Woodland St.
Professor of Chemistry. Director of the Chemical
Laboratories.
Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920-.
Assistant Professor of Chemistry, Clark College, 1903-08; Pro-
fessor, 1908-20.
A.B., Harvard University, 1896; Assistant in Chemistry, 1896-
1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester
Polytechnic Institute, 1900-03.

FRANK BLAIR WILLIAMS, PH.D.

24 Loudon St.

Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900; Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08; Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow, 1892-93. Engineering Work, United States Government Surveys, 1890-92 and 1894; U. S. Asst. Engineer, 1895-97. Assistant Professor of Engineering, Union College, 1900-04; Professor of Engineering Mathematics, 1904-07.

*GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.

Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911-.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09; Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Student, Johns Hopkins University, 1893-94. Graduate Student, Harvard University, 1898-1901; A.M., 1900; Parker Fellow, 1901-02; Ph.D., 1903. Universities of Berlin, Leipzig, and Oxford, 1901-03. Member of the Commission of Inquiry to prepare data for the United States Delegation to the Peace Conference, 1918-19. Member of the Council of the American Antiquarian Society. Member of Technical Staff, American Delegation, Conference on Limitation of Armament, Washington, 1921-22. Visiting Carnegie Professor of International Relations to Universities in Japan, Australia and New Zealand, 1927-28.

CHARLES BREWSTER RANDOLPH, PH.D.

10 Otsego Rd.

Professor of German.

Professor of German, 1920; Secretary of the Summer School, 1921. Director of the Summer School, 1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek and Latin, 1904-05; Assistant Professor, 1905-10; Professor of Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University, 1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek and Latin, University of Illinois Preparatory School, 1897-1900. Student, University of Halle, 1900-01.

*Absent on leave, first semester, 1927-28.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.

Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.

Professor of Greek and Latin, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1898-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

LEROY ALLSTON AMES, A.M. 166 Woodland St.

Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Greenough School, Boston, Mass., 1906-07.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.

Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

ROBERT HUTCHINS GODDARD, PH.D. 17 Gates Lane
Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A.M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15, 1919-20; Instructor in Physics, 1916-18; Professor, 1920.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S., Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U. S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

HOMER PAYSON LITTLE, PH.D. 156 Woodland St.
Professor of Geology and Dean of the College 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

****ELLEN CHURCHILL SEMPLE, A.M., LL.D.** 941 Main St.
Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1906-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

***SAMUEL J. BRANDENBURG, PH.D.** 173 Woodland St.
Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

*To be absent on leave, first semester, 1928-29.

**In residence for first semester only.

*ALFRED LEWIS PINNEO DENNIS, PH.D.
Professor of Modern History.

769 Main St.

Acting Professor of International Relations, 1922-23 Feb.-June;
Professor of Modern History.

A.B., Princeton, 1896. Student, Columbia, Heidelberg, and
Harvard Universities, 1896-1901. Ph.D., Columbia University,
1901. Instructor and Professor of History and Political Science,
Bowdoin College, 1901-04. Associate Professor of History, Uni-
versity of Chicago, 1904-05. Lecturer in History, Harvard Uni-
versity, 1905-06. Professor of History, University of Wisconsin,
1906-20.

Captain, Military Intelligence Division, General Staff, 1918-19.
Assistant Military Attaché, American Embassy, London, report-
ing to Peace Conference, Paris, 1919. Awarded British Military
Cross.

CARL MURCHISON, PH.D.

11 Downing St.

Professor of Psychology, 1923-. Director of the Psy-
chological Laboratories. Editor, *The Pedagogical
Seminary and Journal of Genetic Psychology*. Editor,
Genetic Psychology Monographs. Editor, *Journal of
General Psychology*. Director of the Clark University
Press.

A.B., Wake Forest College, 1909. Rumrill Fellow, Harvard
University, 1909-10. Student, Rochester Theological Seminary,
1910-13; Student, Yale University, 1914-(Jan.)16. Assistant Pro-
fessor of Psychology, Miami University, 1916-19; on leave 1917-19,
1922-23; Associate Professor, 1919-23. Instructor, Army School for
Military Psychology, Camp Greenleaf, Georgia, 1918. Psycholog-
ical Examiner and Camp Morale Officer, Camp Sherman, Ohio;
Assistant, 1918-19; Chief, 1919. Johnstone Scholar, John Hopkins
University, 1922-23; Ph.D., 1923.

WILLIAM HARDER COLE, PH.D.

Professor of Biology, 1924-1928 (Feb.).

A.B., Hamilton College, 1914; Root Fellow, 1914-15. Graduate
Student, Harvard University, 1914-16; A.M., 1916; Austin Teach-
ing Fellow, 1920-21; Ph.D., 1921. Assistant in Zoology, Radcliffe
College, 1915-16. Instructor in Zoology, Pennsylvania State Col-
lege, 1916-20; on leave, 1917-19. Professor of Zoology, Rutgers Col-
lege, Summer Session, 1921-23. Professor of Biology, Wake Forest
College, 1921-24.

*Absent on leave, second semester, 1927-28.

WALTER SAMUEL HUNTER, PH.D. 171 Woodland St.

G. Stanley Hall, Professor of Genetic Psychology, 1925-. Editor, *Psychological Abstracts, Psychological Index.*

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Summer Session, Tulane University, 1915; State University of Iowa, 1920; University of Chicago, 1923; University of California, Southern Branch, 1926; Northwestern University, 1927; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918; Visiting Professor, Harvard University, 1927-28 (first semester).

WILLIAM HOMER WARREN, PH.D. 166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb.)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

CHARLES FRANKLIN BROOKS, PH.D. 209 Lovell St.

Professor of Meteorology and Climatology. Associate Professor, 1921-26; Professor, 1926-.

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meteorology and Physical Geography, 1913-14; Ph.D., 1914. Assistant and Collaborator in Farm Management, United States Department of Agriculture, 1914-18. Instructor in Geography, Yale University, 1915-18. Instructor in Meterology, United States Signal Service, 1918. Meterologist, United States Weather Bureau, 1918-21. Secretary (1919-), American Meteorological Society. Fellow, Royal Meteorological Society. Member, Association of American Geographers.

CAREY EYSTER MELVILLE, A.B.

16 Isabella St.

Associate Professor of Mathematics. Registrar

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920; University Registrar, 1922.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, John Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

DOUGLAS CLAY RIDGLEY, PH.D.

166 Woodland St.

Professor of Geography in Education. Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Ph.D., 1925. Associate Professor, 1924-27; Professor, 1927.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-1922; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922. Professor of Geography, First College Cruise around the World, 1926-27.

JOHN PAUL NAFE, PH.D.

1 Freeland St.

Associate Professor of Psychology.

Assistant Professor of Psychology, 1924-25; Associate Professor, 1925.

A.B., University of Colorado, 1911. Assistant in Psychology, Cornell University, 1921-22; Instructor, 1922-24; Ph.D., 1924.

WALTER ELMER EKELAW, PH.D. Box 431, No. Grafton, Mass.

Associate Professor of Geography. Assistant Editor, Economic Geography.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

- *CLARENCE FIELDEN JONES, PH.D. 193 Lovell St.
 Associate Professor of Economic Geography. Associate
 Editor, *Economic Geography*.
 Assistant Professor, 1923-26; Associate Professor, 1926-;
 B.S., University of Chicago, 1917; Assistant and Graduate Stu-
 dent, Department of Geography, 1919-23; Ph.D., 1923. Head of
 Department of Geography, State Normal School, St. Cloud, Minn.,
 1917-18. Instructor in Geography, Illinois State Normal Univer-
 sity, Summer Session, 1920. Visiting Professor in Geography,
 Iowa State University, Summer Sessions, 1924 and 1925. Lecturer
 in Geography, Western Illinois State Teachers College, Summer
 Session, 1924. Member, Association of American Geographers.
- VERNON AUGUSTUS JONES, PH.D. 12 May St.
 Associate Professor of Educational Psychology, 1926-.
 Principal of High School, 1919. A.B., and A.M., University of
 Virginia 1920; Teacher of Educational Psychology, Summer term,
 1924; Principal of Schools, 1920-23; A.M., Columbia University
 1924; Associate in Education, 1925-26; Ph.D., 1926. Director of
 Research, Public Schools, Richmond, Virginia, 1924-25.
- JAMES BLAINE HEDGES, PH.D. 25 Delawanda Dr.
 Associate Professor of American History.
 Assistant Professor, 1924-26; Associate Professor, 1926-.
 A.B., University of Missouri, 1915; A.M., 1916. Fellow in His-
 tory, Harvard University, 1916-17; Austin Teaching Fellow, 1919-
 20, 1922-23; Ph.D., 1924. Instructor in History, University of
 Oklahoma, 1920-21. Assistant Professor of History, Mills College,
 1921-22. Secretary and Archivist, Harvard University Commis-
 sion on Western History, 1923-24.
- JAMES ACKLEY MAXWELL, PH.D. 1 Freeland St.
 Assistant Professor of Economics.
 Instructor in Economics, 1924-26; Assistant Professor, 1926-.
 A.B., Dalhousie University, 1921; A.M., Harvard University,
 1923; Ph.D., 1927 (Feb.).
- LELAND LEAVITT ATWOOD, PH.D. 68 Mann St.
 Assistant Professor of Romance Languages, 1926-.
 A.B., Clark College, 1916; Instructor, Summer Session, 1924;
 Assistant Professor, 1926-.
 Instructor in Romance Languages, Cornell University, 1917-24;
 (1917-November-1919 in military service) A.M., 1922; Ph.D., 1927.
 Student, University of Paris, March-July, 1919. Instructor in Ro-
 mance Languages, North Carolina College for Women, 1924-25;
 Assistant Professor, 1925-26.

*To be absent on leave, first semester, 1928-29.

- JESSE LUNT BULLOCK, A.M. 25 Downing St.
 Assistant Professor of Chemistry, 1926-.
 A.B., Harvard 1914; Graduate Student and Assistant in Chemistry, 1914-15; A.M., 1928. Industrial Research, The Calco Chemical Company and The Diamond Match Company, 1915-22. Chief Chemist, The Granton Chemical Company, 1922-24. Consulting Chemist, 1924-26.
- ARTHUR FLETCHER LUCAS, PH.D. 57 Lovell St.
 Assistant Professor of Economics and Sociology, 1926-.
 A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925.
- DUDLEY WILSON WILLARD, PH.D. 2 Clement St.
 Assistant Professor of Sociology, 1926-.
 A.B., University of Washington, 1917; A.M., 1922; Arthur A. Denney Fellow in Education, 1922-24; Ph.D., 1927. Associate in Research, Lincoln School of Teachers College, Columbia University, 1924-25; Graduate Student, Columbia University, 1925-26.
- HEINRICH BOSSHARD, PH.D. 12 Shirley St.
 Assistant Professor of German, 1927-.
 Ph.D., University of Zürich, Switzerland, 1919. Student, University of Grenoble, France, Summer Sessions, 1914 and 1916. M.Ed., Harvard University, 1921; Instructor in German, 1921-22, 1926-27. Assistant Professor of German, University of North Carolina, 1922-23. Study and Travel, 1923-24. Instructor, Odenwald schule, Oberhambach, Germany, 1924-26. Instructor, Harvard University, 1926-27.
- OSCAR WHITE RICHARDS, A.M. 769 Main St.
 Assistant Professor of Zoology, 1928 (Feb.)-.
 A.B., University of Oregon, 1923; Teaching Fellow, 1923-25; A.M., 1925; Instructor, 1925-26; Assistant, Hopkins Marine Station of Stanford University, summer, 1926. Fellow, Graduate School, Harvard University, 1926-27 (Dec.); Ralph Sanger Scholar, 1926-27.
- DWIGHT ERWIN LEE, PH.D. 166 Woodland St.
 Assistant Professor of Modern European History, 1927-.
 A.B., University of Rochester, 1921; A.M., 1922; Assistant in History, 1921-22; Instructor, 1922-24. Graduate Student, University of Michigan Summer School, 1922. Graduate Student, Harvard University, 1924-27; Francis Parkman Fellow, 1925-26; Bayard Cutting Travelling Fellow, 1926-27; Ph.D., 1928 (Feb.). Research in Paris, London, and Vienna, 1924, 1925, and 1926-27.

PERCY MARTIN ROOPE, Ph.D.	12 Bowdoin St.
Assistant Professor of Physics. A.B., Clark College, 1920; Instructor in Physics, 1921-27; A.M., 1924; Honorary Fellow 1924-25; Fellow 1925-26; on leave, 1926-27; Ph.D., 1927; Assistant Professor, 1927.	
Instructor in Physics, Kalamazoo College, 1920-21. Graduate Student, Massachusetts Institute of Technology, 1926-27.	
DAVID POTTER, M.Sc.	15 Shirley St.
Assistant Professor of Biology. Instructor in Biology, 1924-27; Assistant Professor, 1927-	
B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923. Instructor in Biology, Albion College, 1923-24.	
S. VAN VALKENBURG, Ph.D.	15 Hadwen Lane
Assistant Professor of Geography. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-.	
GEORGE ELISHA BAKER, A.M.	Estabrook Hall
Assistant Professor of English. Proctor, Estabrook Hall.	
Assistant in English, 1924 (Feb.-June); Instructor 1925-27; Assistant Professor, 1927-	
Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925. Student Emerson College of Oratory, summer session, 1926.	
CURTIS F. MARBUT, LL.D.	
Special Lecturer in Geography.	
GUY H. BURNHAM, A.M.	19 Bowdoin St.
Cartographer, Graduate School of Geography.	
ERNEST RAYMOND WHITMAN	48 Downing St.
Director of Physical Education	
RALPH WARNER ELLIS, M.D.	574 Main St.
Medical Director.	
FLORENCE CHANDLER	18 Downing St.
Bursar.	
DEAN WINSLOW HANSCOM, A.B.	Waban, Mass.
Director of the Glee Club.	

ARTHUR J. DANN, A.B.	27 Circuit Ave.
Director of the Orchestra.	
EUGENE C. BELKNAP	9½ Hancock St.
Curator, Department of Chemistry.	
JOHN W. BOARDMAN	15 Shirley St.
Superintendent of Buildings and Grounds.	

STUDENT ASSISTANTS

- WALLACE R. ATWOOD, A.M., Geography.
 CARLETON P. BARNES, A.M., Geography.
 J. HERBERT BURGY, A.M., Geography.
 HAROLD H. CRAWFORD, A.B., Economics and Sociology.
 RICHARD B. DOW, A.B., Physics.
 HENRY F. EAGAN, A.B., Chemistry.
 P. HARRY EWERT, A.M., Psychology.
 FRANK A. GELDARD, A.M., Psychology.
 CHARLES GOOZE, A.B., Geography.
 KENNETH B. HOLMES, PH.B., History and International Relations.
 DOROTHEA E. JOHANNSEN, A.M., Psychology.
 CLARENCE E. KOEPPE, A.M., Geography.
 GEORGE V. KROPP, Physical Education.
 CHARILAOS G. LAGOUDAKIS, A.M., History and International Relations.
 LESTER C. LINDLEY, A.B., History and International Relations.
 GEORGE W. LLOYD, B.H., Economics and Sociology.
 LEO J. MEYER, A.M., History and International Relations.
 MICHAEL T. NEARY, A.B., Economics and Sociology.
 JOHN L. PAGE, A.M., Geography.
 JULIA M. SHIPMAN, A.M., Geography.
 ROBERT STONE, B.P.E., Physical Education.
 ELAINE J. SWENSON, B. of Music, Psychology.
 OSBORNE B. TABOR, A.B., Chemistry.

Governing Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph

THE UNIVERSITY SENATE

An advisory board appointed by the President

President Wallace W. Atwood, *ex officio*

George H. Blakeslee	Homer P. Little
Samuel J. Brandenburg	Benjamin S. Merigold
Robert H. Goddard	Carl Murchison
Walter S. Hunter	Douglas C. Ridgley

Louis N. Wilson

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control, independent of the Faculty, of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee	Walter S. Hunter
Samuel J. Brandenburg	Clarence F. Jones
Alfred L. P. Dennis	James A. Maxwell
Robert H. Goddard	Benjamin S. Merigold
James B. Hedges	Carl Murchison

William H. Warren

Charles F. Brooks, *Secretary*

THE COLLEGIATE BOARD

The Collegiate Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood	}	<i>ex officio</i>
Collegiate Dean Homer P. Little		
Registrar Carey E. Melville		
Leroy A. Ames	Philip H. Churchman	
George E. Baker	James A. Maxwell	
Haven D. Brackett	John P. Nafe	
Benjamin S. Merigold, <i>Secretary</i>		

THE COMMITTEE ON THE DEGREE OF BACHELOR OF EDUCATION

The Committee exercises general supervision, subject to the approval of the Faculty, over the degree of Bachelor of Education.

President Wallace W. Atwood, <i>ex officio</i>
Registrar Carey E. Melville, <i>Chairman</i>
Collegiate Dean Homer P. Little

Director of the Summer School and of the Home Study Department Douglas C. Ridgley.

THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, <i>ex officio</i>	
Director of the Summer School Douglas C. Ridgley	
George H. Blakeslee	Carey E. Melville
Carl Murchison	

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually by the Faculty to advise the President regarding the personnel and the organization of departments.

Leroy A. Ames	Philip H. Churchman
Samuel J. Brandenburg	Homer P. Little
Charles B. Randolph	

COMMITTEE ON EXTENSION COURSES

Philip H. Churchman, <i>Chairman</i>	Homer P. Little
Vernon A. Jones	

STANDING COMMITTEES OF THE GRADUATE BOARD

The President of the University is *ex officio* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

Charles F. Brooks, *Chairman*

George H. Blakeslee	Samuel J. Brandenburg
Carl Murchison	

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines for proficiency in foreign languages each candidate for the degree of Doctor of Philosophy.

Philip H. Churchman, Professor of Romance Languages

Charles B. Randolph, Professor of German

A representative of the students' major department

STANDING COMMITTEES OF THE COLLEGIATE BOARD

The President of the University and the Collegiate Dean are *ex officio* members of all committees of the Collegiate Board.

THE COMMITTEE ON ADMISSIONS

Registrar Carey E. Melville, *Chairman*

Haven D. Brackett	Robert H. Goddard
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THE COMMITTEE ON CURRICULUM

Leroy A. Ames	Philip H. Churchman
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Registrar Carey E. Melville, *ex officio*

THE COMMITTEE ON STUDENTS' STANDING

The Registrar, and the instructors and advisers of the students under consideration.

THE COMMITTEE ON ATHLETICS

James A. Maxwell	Ernest R. Whitman
David Potter	Frank B. Williams

THE COMMITTEE ON AUTHORIZED EXCURSIONS

Charles F. Brooks	Carey E. Melville
-------------------	-------------------

THE COMMITTEE ON COOPERATION WITH STUDENTS

Loring H. Dodd, Charles B. Randolph, Benjamin S. Merigold

COMMITTEE ON STUDENT FINANCE

Charles B. Randolph, *Chairman*

James A. Maxwell

Ernest R. Whitman

The University

LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of nearly two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the Campus.

Jonas G. Clark Hall, completed in 1889, is a four-story granite and brick building, 204 feet by 114 feet, of fire-resisting construction, containing about ninety rooms.

Science Hall, completed in 1889, is constructed of brick with brick partitions throughout. It has the form of a letter L with each wing about 135 feet in length. The wing adjacent to Woodland Street, containing about twenty-eight rooms on three floors, is occupied by the Department of Chemistry. The other wing,

containing about twenty-two rooms on four floors, is occupied by the Department of Physics.

The Library Building, completed in 1903, is architecturally the most noteworthy of the University buildings. The design is a modern adaptation of the Gothic style. The exterior is of brick on a granite foundation. The interior is finished throughout in oak. The building, facing Main Street and extending back along Downing Street, is 78 feet by 168 feet and three stories in height.

The Geography Building, completed in 1910, is 56 feet wide and extends along Main Street for 111 feet. It is connected by corridors to the Library Building, which it matches in design.

Estabrook Hall, a dormitory for about fifty students, is the newest addition to the University buildings. This is an attractive brick building, 43 feet by 125 feet, and three stories in height, including the Dining Hall, built in 1908, on the ground floor. The dormitory and dining hall are both supplied with the most modern equipment throughout. The dining hall has accommodations for about two hundred.

ORGANIZATION

The University includes:

THE UNDERGRADUATE DIVISION offering a general collegiate course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography and related subjects.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

COURSES OF STUDY are offered by thirteen departments:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology

5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics
11. Physics
12. Psychology and Education
13. Romance Languages and Literatures

THE ACADEMIC YEAR

The academic year begins on the fourth Thursday in September, and Commencement Day is the thirty-eighth Monday following (the second or third Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are three recesses during the college year: Thanksgiving Day and the two days following: two weeks including Christmas and New Year's Day; and the week including the nineteenth of April. University exercises are suspended also on Columbus Day, Washington's Birthday, and Memorial Day, and during some of the morning hours on Founder's Day, in order to permit students to attend the commemoration exercises.

The Summer School begins on a Monday early in July and continues in session for six weeks.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see page 40.
2. Graduate students. For requirements see page 52.
3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see page 55 and 83

Requests for information and for application forms should be addressed to the Registrar.

REGISTRATION

The first day of the academic year and of the summer session are devoted to the registration of programs of study. Registration for the second semester is required not later than the tenth day (Thursday) before the beginning of the semester.

Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to maximum of five dollars.

TUITION AND FEES

The tuition in the Undergraduate and Graduate Division is \$200* per year. Special Students and others carrying small programs are charged at the rate of \$40 for a course meeting one hour weekly through the year, and \$20 for each additional hour per week through the year. Tuition is payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition for special courses for teachers is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

A matriculation fee of \$5 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence,

*A candidate for a degree who entered the University in September, 1926, or earlier, remains continuously in residence during the regular sessions from September to June and proceeds to the degree in the normal time, will be charged at the rate of \$150 per year for the time required to earn the degree.

without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students admitted to special courses for teachers (extension courses), to field trips conducted by the Summer School and to Home Study courses are not required to matriculate. Official statements of record are issued by the Registrar of the University to matriculated students only.

Laboratory fees are charged at the rate of *\$2.50 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on application; and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

Diploma fees are charged according to the following schedule:

\$5 for the Bachelor of Arts or the Bachelor of Education diploma. These fees are due before the delivery of the diploma.

\$10 for the Master of Arts diploma. (see page 58 for publication fee).

\$25 for the Doctor of Philosophy diploma. (see page 60 for publication fee).

These fees are due when applications for admission to candidacy are filed.

DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge has been \$7 per week.

* Beginning September 1928 the laboratory fee will be \$5.00 each semester.

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan, pages 32 and 33) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. In case of voluntary or involuntary withdrawal from the College, room rent is charged to the first of the calendar month following the date of withdrawal. Each student is required to deposit \$10* before occupying a room. This deposit is returned, less any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar. A deposit of fifty cents is required from each student for a key to his room.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for Freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to Freshmen in order of application, when the application is accompanied by a deposit of \$10. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings can be secured in private houses within convenient distance at a reasonable cost.

OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city and that the total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a book store which is operated without profit in order to reduce the cost of text-books and supplies.

* Beginning with the academic year 1928-29 the deposit will be \$25.00 and each students' share of the cost of lighting the Dormitory will be deducted from his deposit.

FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as announced on page 52.

Undergraduate scholarships are available as announced on page 38.

Loans and other grants are also available from various special funds specifically designated for either graduate or undergraduate students and from the Sarah M. Thurber Loan Fund to both graduates and undergraduates.

HEALTH AND PHYSICAL TRAINING

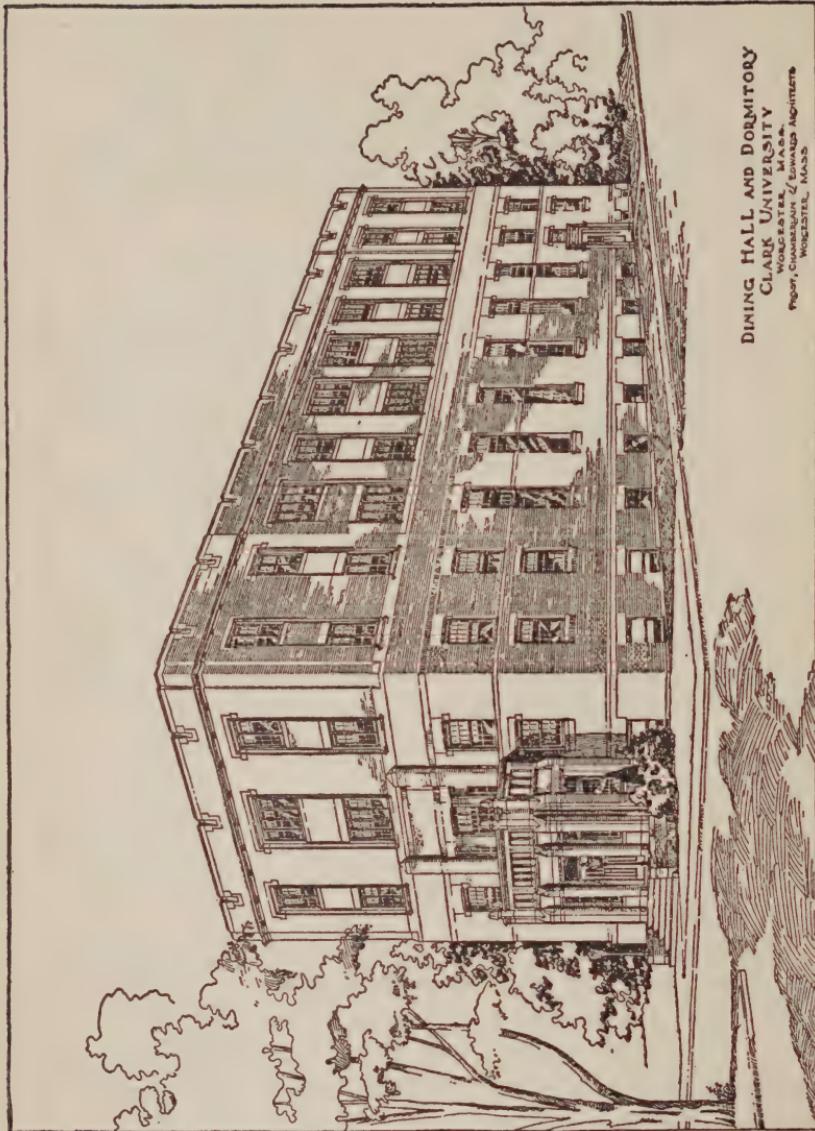
The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

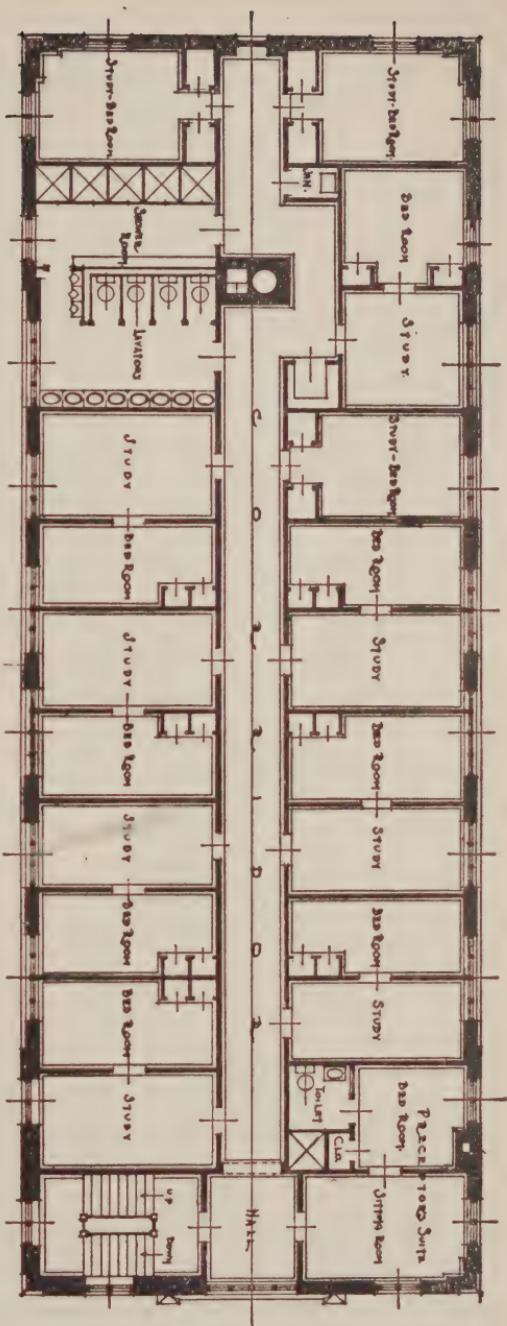
The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The larger athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue, about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.



DINING HALL AND DORMITORY
CLARK UNIVERSITY
WORCESTER,
MASS.
PROF. CHAMBERLAIN & EDWARDS, ARCHITECTS
WORCESTER, MASS.



THIRD FLOOR PLAN
Scale $\frac{1}{4}$ " = 10 ft

DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshmen students. All Freshmen who are living away from home while attending the College and who are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms has been placed at a very modest figure, much less than rooms of similar equipment and attractiveness can be secured for in the neighborhood of the College. A proctor lives in the building and has general supervision over the life in the dormitory.

The Library

LOUIS N. WILSON, *Librarian*

EDITH M. BAKER, *Assistant Librarian*

HELEN J. ELLIOT, *Cataloguer*

Assistants

Alice M. Brown

MARGARET A. HERRIDGE

ELEANOR N. MIDWOOD

EDITH L. SAWYER

Student Assistants

ADRIAN A. GAUCHER

WILFRED R. FARRELL

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing Streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publications of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 120,000 bound volumes and pamphlets, and the reading room receives over 500 journals.

The books are grouped as follows:

A	Works of General Reference	L	Biography
B	Journals	M	Anthropogeography
C	Mathematics	N	Education
CD	Mathematics-Physics	O	General Science
D	Physics	P	History
DE	Physical Chemistry	R	Political and Social Science
E	Chemistry		Economics
F	Biology, Zoölogy, Botany, Physiology, Neurology	S	English
G	Geography	T	Modern Languages
H	Pathology	U	Classics
I	Psychology	W	Practical Arts
J	Philosophy	X	Library Science
K	Religious Psychology	Y	Art
		Z	European War

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All the privileges of the Library are open to all members of the University.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during term time and during the Summer School session.

ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those of the Founder's collection that were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which, by the conditions of the will, cannot be removed from the build-

ing. A complete catalogue of these books and paintings has been published in the Publications of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection:

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees since 1901 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting "Sugar Loaf Mountain, Deerfield, Mass." by Colin A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend,

"Knowledge is proud that he has learned so much,
Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Son of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

The Undergraduate Division (Clark College)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was in part due to the emphasis placed upon a three-year course in the will of the founder, and in part the result of a conviction that properly prepared students could, under favorable conditions, secure in three years a training in no substantial degree inferior to that ordinarily obtained in a four-year college course. Increasing pressure, on the one hand, for the admission of high school graduates who could not qualify for the three-year course and, on the other hand, for a larger development of extra-curricular activities, including athletics, has led to a modification of this plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the Bachelor of Arts degree has been offered. The opportunity for completing the requirements for graduation in three years continues to be open to qualified students and to be emphasized in accordance with the traditional policy of the College and the intent of its founder.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. It especially commends itself to earnest young men who wish to economize in either time or money. In accordance with the expressed wish of the founder, the tuition has been kept as low as possible. A general and well-balanced undergraduate curriculum leading to the degree of Bachelor of Arts is offered. Distinctively vocational or professional work is not offered. Certain departments, particularly the Department of Chemistry, have, however, been able to give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 28 and 30.

SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. These scholarships replace the smaller number of UNDERGRADUATE SCHOLARSHIPS previously available. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the Worcester High Schools. Of the remaining thirty scholarships, ten will be reserved for each of the three upper classes for students who rank in the upper quarter of each class.

THE SANFORD MEMORIAL SCHOLARSHIP FUND. The alumni of the university have raised four thousand dollars to found a scholarship fund in memory of former President Edmund C. Sanford, the income from which is to pay the full tuition of some undergraduate. Included in the fund, by vote of the class of 1918, is its class gift to the University. The first award of the scholarship will be in 1930.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

THE HENRY A. WILLIS FUND of \$5,000 provides an annual scholarship for students coming from Fitchburg and vicinity, but in the absence of a suitable recipient from this community other disposal may be made.

THE B'NAI BRITH SCHOLARSHIP is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

FACULTY WOMEN'S CLUB SCHOLARSHIP—This Club, working in cooperation with the wives of alumni, has for the last two years

raised funds from which two \$100 scholarships have been granted. Scholarships from this source will be available for the year 1928-29.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the Collegiate Board.

The Board expressly reserves the right to award less than the full number of scholarships in any year if less than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If however, those who avail themselves of such aid are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

LOAN FUNDS

THE ALUMNI LOAN FUND. Grants from this fund are made on recommendation of the President or Dean of the College in amounts determined by the need of the applicant but seldom in excess of one hundred dollars per year to any single applicant. The loans are covered by notes payable at a fixed date and bear interest from date at the rate of six percent per year. Applications may be made at any time.

THE ESTABROOK LOAN FUND. This is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees and now amounting to a total of about four thousand two hundred and fifty dollars. The fund is administered by the Dean of the College. The notes given to cover the grants bear interest at the rate of six percent per year. It is expected that loans from this fund will be repaid as promptly as possible.

THE SARAH M. THURBER LOAN FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of this fund to either undergraduate or graduate students. Such loans will bear interest at the rate of six percent per annum, and should be repaid as

promptly as possible, so that other students may benefit from this foundation.

OTHER FUNDS. A special alumni loan fund has been contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin and H. M. Smith, and others. This fund amounts to about \$500. Mr. Kelley has continued to give financial assistance to one or more deserving students each year.

ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Registrar.

It is the practice to regard every admission as an "admission on trial" to the actual work of the College. A student whose record fails to meet the expectations implied by his admission may be required to withdraw at any time.

Applications for admission should be made as early as is practicable. Official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

Special students are admitted to the University under the conditions stated on page 27.

ADMISSION TO THE FRESHMAN CLASS

A four-year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. Two units are required in Mathematics (Algebra and Geometry). A single unit in a foreign language is not accepted. Commercial and industrial subjects will be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one quarter of a pupil's normal program of work for the school year.

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission naming three competent references as to general character and ability. This application should be filed with the Registrar at the earliest practicable date.
2. A complete statement of his preparatory school record.

This should be mailed to the Registrar by the officer who signs it. (See statement below in regard to certificates).

In addition to the above, an applicant should supply records of any entrance examinations which he may have taken.

CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) *without conditions* if they offer *fifteen certified units* of credit in acceptable subjects, or (b) *with one or two conditions* if they offer *fourteen or thirteen certified units* respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Boards. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not have the certificate privilege should arrange in consultation with the Registrar to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the college with or without conditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by examinations is offered at the college immediately before the opening of the academic year in September.* These examinations are also provided by the College Entrance Examination Board, and

*In 1928 from September 17 to 21.

are intended to be supplementary to those held in June. Admission to them is by special permission in each case. A fee of \$2.00 is charged by the college for each examination.

ADMISSION WITH CONDITIONS

Admission with conditions is essentially admission on trial. It is not intended that such admission shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned students shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subject in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee of two dollars for each examination must be paid when applications are filed.

Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.

ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after previous study at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class

rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the Collegiate Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the college year. In all cases of action directly affecting a student the adviser is his representative before the Faculty and will present the student's views and desires.

REGISTRATION

When a student is accepted for admission he is given a card authorizing him to matriculate. This card, when received by the Bursar as evidence of payment of the matriculation fee, is his authorization to register.

Registration days are the first day of the academic year and the tenth day (Thursday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00.

A student's record of attendance begins with the first day of the semester, and no credit for attendance is given until registration is completed. In cases of delayed registration unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the Collegiate Board are presented.

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the Collegiate Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses is 50 in 100 or better, except in the case of seniors.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in College. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in College, he should plan his course from the beginning as definitely as possible with his probable choice in view.

THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a *major* and a *minor*) together with required courses in English and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A *major* consists of at least twenty-four semester hours and a *minor* of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

DIVISION A*

Biology, Chemistry, Geology, Mathematics, Physics, also the following individual courses: Geography 12, Psychology 12.

*Courses in the history of the various sciences may not be counted in fulfillment of the requirement 2f, page 47.

DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology.

DIVISION C

Ancient Languages, English, German, Romance Languages.

STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen." The program for the freshman year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective.

Second year students should, as a rule, complete the English requirement, continue work in Foreign Language, and complete the requirement in Division A by taking a course in a laboratory science. A course in English Composition (English 14) is a requirement for second year students unless they have secured a rank in the upper quarter of English 11.

Undergraduates, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and Juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the Collegiate Board and of the Graduate Board.

PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

1. A minimum period of study in residence of three academic years.
2. One hundred and twenty semester hours of credit with a satisfactory standing, in addition to the required work in physical training.

The 120 hours required for graduation must include:

- a. A *major* of not less than twenty-four semester hours.
- b. A *minor* of not less than eighteen semester hours.
- c. A requirement depending on the choice of the *major* subject, six semester hours.

Those majoring in Division A must take Mathematics 10 or 11.

Those majoring in Division B must take either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

Those majoring in Division C must take Greek or Latin in the Freshman year. This requirement is waived if two units of Greek or Latin are presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.

English 14, English Composition, is required in the second year of all students except those who rank in the upper quarter of English 11.

- e. *Foreign Language*, at least thirty semester hours including credits accepted for admission. Foreign language accepted for admission will be credited towards the fulfillment of this requirement on the basis of six semester hours for two units of preparatory work in one language, twelve semester hours for three units in one language and eighteen semester hours for four units.

One foreign language course of at least second year college grade must be taken in college.

The thirty semester hours required may be divided between any two languages or among any three, but not less than six semester hours will be accepted in any one language and at least eighteen semester hours are required in one language.

- f. *Division A*, twelve semester hours for students whose High school course included two or three units of Science in addition to Mathematics. For students who presented only a single unit of Science, this requirement is eighteen hours. For students who presented four units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

- g. *Division B*, twelve semester hours for students whose High School course included two or three units of History or

related subjects. For students whose high school course included only a single unit in this field, the requirement is eighteen semester hours. For students whose high school course included four units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in any department.

3. *Physical Training*, three hours per week through the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

Students who satisfy all of the foregoing requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the Faculty there is cause for withholding this recommendation.

GRADING AND SCHOLARSHIP

A student's scholarship record is determined by his relative standing in each of his courses. College regulations concerning scholarship are based on the fundamental assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit amounts to 0.5 hour for ranks from 1 to 5, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

A student is not permitted to count toward the A.B. degree more than forty-eight semester hours of credit for courses in which his rank places him in the lowest quarter of his class.

CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student who, at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the Faculty, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

Participation in extra curricular activities is denied to those students only whose scholarship record is such as to indicate that further enroachment upon their time and attention may interfere with the completion of their course. In accordance with this principle, a student is "ineligible" for the following half semester if at any report period

- (a) he fails more than one course.
- (b) he fails one course and does not secure ranks above the lower quarter of the class in two subjects.
- (c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the Collegiate Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Two formal dances, the "Junior-Freshman Prom" in the winter, and the "Senior Prom" at Commencement, time in addition to informal dances, "Bohemians," held about once in six weeks, give opportunity for relaxation and the meeting of students and faculty on a basis of general sociability. Additional opportunities of this sort are provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the

winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and many other organizations.

The Dramatic Association is a very active student organization which presents a number of plays each year under the direction of Professor L. H. Dodd of the Department of English.

On Sub-Freshman Day, in the spring, those who have some expectation of entering the College in September are guests of the University for the purpose of establishing mutual acquaintanceship.

THE CLARK MONTHLY, a review of college life and letters, was established in 1911.

The Graduate Division

GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degree of Master of Arts and Doctor of Philosophy are offered by the following departments:

Economics and Sociology

Geography

History and International Relations

Psychology

Work leading to the degree of Master of Arts only is offered by the departments of Biology, Chemistry, and Physics.

The other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 28 and 30.

Fellowship stipends for graduate students are provided annually from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie. Other financial assistance is made possible by University grants and by various bequests.

SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend up to \$200 (see page 55), and fellowships yielding tuition and additional stipends up to \$800 (see page 39).

The American Antiquarian Society Fellowship in American History, having a value of \$300 in addition to the remission of tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose major is in American History.

STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

1. Regard is had to the intellectual ability of the candidate as well as to the need of pecuniary assistance.
2. Only candidates who have spent three months in graduate work at the University are considered.
3. The head of each department will consider and report to the Faculty desirable cases in his department.
4. Applications are received not later than January 30, and the awards made as soon as possible after the beginning of the second semester.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administrated by the President of the University. Loans may be made from the income of the fund to either undergraduate students or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

LIBRARY FACILITIES

In addition to the library facilities provided by the University (see pages 34 to 36) students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

On the following pages are printed the rules of the Graduate Board governing admission, scholarships and fellowships, candidacy, theses, examinations, and degrees for graduate students in Clark University.

ADMISSION TO THE GRADUATE SCHOOL

A. *Eligibility.* Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university that was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student*.

B. *Making application.* A prospective applicant should communicate with the department in which he expects to do his major work, to learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Registrar or Secretary. This application, together with official certificates of previous undergraduate and graduate work, and if possible, of the applicants rating in a standard intelligence test, should be filed with the Secretary of the Graduate Board. Any other information, including published or unpublished theses or other writings of the applicant, that would be helpful in showing the Board the applicant's qualification should be sent.

C. *Admission.* In granting admission, with the advice of the department the Graduate Board may prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement. A special graduate student is admitted only for a specified period, not exceeding one academic year.

D. *Admission of a special graduate student to regular graduate standing.* After a semester or its equivalent of residence and upon recommendation of his major department, a special graduate student may be admitted by the Board to regular graduate standing.

E. *Undergraduates and non-graduate special students in graduate courses.* Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be granted by the Graduate Board only on formal recommendation in each person's case by the department in which the course is offered.

APPOINTMENT OF SCHOLARS AND FELLOWS

A. *General regulations.*

- Scholarships and fellowships (except Honorary appointments) are for prospective candidates, respectively, for the degree of Master of Arts and of Doctor of Philosophy at this University.

- All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or unfavorable, recommendation of the department and must be accompanied by supporting data. Applications when properly endorsed, as pro-

vided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names of all applicants, together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within 15 days of the date of notification.

4. For most favorable consideration, applications for appointments for the succeeding academic year should be in the hands of the Secretary by March 1st.

5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

6. A scholar or fellow shall not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student, unless he obtains permission from the Graduate Board to do so.

B. *Scholarships.* Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the Master's degree in not more than one year of residence. These scholarships are valued at \$100 and \$400. This is equivalent to half or full tuition, with, in some cases, an additional stipend of \$50 to \$200.

C. *Fellowships.* Fellowships valued at \$200 to \$600, which are equivalent to tuition alone or to tuition and an additional stipend of from \$50 to \$400, may be awarded to competent full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$1,000, equivalent to tuition alone or to tuition and an additional stipend of \$50 to \$800, may be awarded to competent graduate students who give promise of completing their work for the Ph.D. degree by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships or teaching fellowships*, with the consent of the applicant

and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

E. *Honorary fellowships.* Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges, but no additional stipends are given.

PROGRAMS OF STUDY

Programs of study of all students in the Graduate School, approved by departmental staffs, must be submitted to the Secretary of the Graduate Board by October 1 and February 10 each year. The Secretary shall scrutinize these programs and report any irregularities to the department concerned or to the Board.

LANGUAGE REQUIREMENTS

A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his speaking, reading and writing knowledge of English.

Judgment in regard to the adequacy of his knowledge of English in the case of a student coming up for a degree after his first year of residence is left to the different departments.

A prospective candidate for the Ph.D. degree is advised to prepare himself early for the oral examinations in reading French and German, or a duly authorized substitute for either. When he is ready for either or both he is to notify the Secretary of the Graduate Board, who will arrange for the examination to be held within two weeks. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the department in

which the student is doing his major work. The committee shall report the results of the examination to the Secretary of the Board. Other additional language requirements may be imposed by the department in which the student's major work lies.

RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a pre-requisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the Graduate Board. Residence work is broadly defined as work done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the faculty is considered as providing an opportunity for work in residence.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

A. Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work in the University, be accepted, by the Graduate Board, as candidates for the degree of Master of Arts. An application for admission to candidacy for the Master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university.
2. Paid the diploma and publication fees (\$10.00 and \$10.00), and
3. Filed an application with his major department and obtained the written endorsement of that department.

Each department will deliver these applications to the Secretary of the Graduate Board. Unless extended by action of the Graduate Board, admission to candidacy for the Master of Arts degree shall hold good for not more than three years. When candidacy expires without the degree having been awarded, the

diploma and publication fees, less any expenses incurred, will be returned.

Application for admission to candidacy for the Master's degree must be filed with the candidate's major department before the end of the first week of the semester or term in which the period of residence for the degree is to be completed.

B. *Course requirements.* The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. In order to insure that the student may obtain the necessary training, a minimum course credit of 18 semester hours in addition to his research work is required. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department.

C. *Examinations.* The candidate must pass with distinction such written examinations as may be required by the major department, and a final oral examination of approximately one hour's duration by a committee of four or more, three of whom shall be members of the Graduate Board. The major department shall make a written report to the Secretary of the Graduate Board, stating the ground on which the candidate is recommended for the M.A. degree.

D. *Thesis.* By May 15 of the academic year in which the degree is to be conferred the candidate must present to the chairman of his major department a thesis, and an abstract of it not exceeding 600 words in length, on some topic which has received the approval of that department. This copy and abstract and one duplicate for the department must be delivered to the Secretary of the Graduate Board, at least one week before the degree is to be conferred.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A. *Course of Study.* The Ph.D. degree will be recommended only for such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which the major subject lies.

A graduate student who expects to proceed to the Doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

B. *Admission to candidacy for the degree of Doctor of Philosophy.* An application for admission to candidacy for the Ph.D.

degree will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages: French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these.
3. Passed a preliminary examination in his major and minor fields of study.
4. Paid the diploma and publication fees (\$25.00 and \$15.00);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission for candidacy for the Ph.D. degree shall hold good only for three years from the date of the vote granting admission of candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned. Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

C. *Dissertation.*

For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement.

“A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of —— and accepted on the recommendation of
(Name of Chief Instructor)”

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and the abstract of the dissertation shall be delivered to the Secretary of the Graduate Board by three days before Commencement, to be deposited in the Library, where they shall remain. An extra copy of the abstract shall also be filed with the Secretary.

D. *At the final examination* the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the departments concerned. The oral examination will be held by a committee of at least four members, including: the chairman and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the Secretary of the Graduate Board.

The Secretary of the Graduate Board shall prepare and publish a schedule of examinations and the examining committees for the degree of Doctor of Philosophy at least one week before the beginning of such examinations.

The Graduate School of Geography

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well equipped building, including lecture rooms, offices and work rooms, and is directly connected with the University Library.

Degrees in Geography are granted by the University on the same terms as apply to degrees in other fields of study.

STAFF

WALLACE W. ATWOOD, Ph.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGELY, PH.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Assistant Editor, *Economic Geography*.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

S. VAN VALKENBURG, PH.D., Assistant Professor of Geography.

GUY H. BURNHAM, A.M., Cartographer.

WALLACE R. ATWOOD, A.M., Assistant in Physiography. (1927-1928.)

CARLTON P. BARNES, A.M., Research Fellow, Plant Geography. (1927-28.)

J. HERBERT BURGY, A.M., Research Fellow, Economic Geography. (1927-28.)

CHARLES GOOZE, A.M., Research Fellow, Economic Geography. (1927-28.)

CLARENCE E. KOEPPE, A.M., Research Fellow, Climatology. (1927-28.)

JOHN L. PAGE, A.M., Research Fellow, Climatology. (1927-28.)

JULIA SHIPMAN, A.M., Research Fellow, Geography. (1927-28.)

GRAGG RICHARDS, PH.D., Research Assistant, Climatology. (Jan.-Feb., 1928.)

WILLEM VAN ROYEN, A.M., Research Fellow, Regional Geography. (1927-28.)

J. HENRY WEBER, A.M., Research Assistant, Climatology. (Oct., 1927-Feb., 1928.)

HARLEY P. MILSTEAD, A.M., Research Fellow, Regional Geography. (1927-28.)

OTHER MEMBERS OF THE UNIVERSITY STAFF OFFERING CLOSELY RELATED WORK

GEORGE H. BLAKESLEE, PH.D., Professor of History and International Relations.

ALFRED L. P. DENNIS, PH.D., Professor of Modern History.

J. B. HEDGES, Ph.D., Professor of American History.

HOMER P. LITTLE, PH.D., Professor of Geology.

SAMUEL J. BRANDENBURG, PH.D., Professor of Economics and Sociology.

JAMES ACKLEY MAXWELL, PH.D., Associate Professor in Economics.

ROBERT H. GODDARD, PH.D., Professor of Physics.

VERNON A. JONES, PH.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, PH.D., Assistant Professor of Economics and Sociology.

DUDLEY W. WILLARD, PH.D., Assistant Professor of Sociology.

DAVID POTTER, M.Sc., Assistant Professor of Biology.

GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the univer-

sities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men and women who can serve as supervisors or as special teachers in Geography. The large financial houses are endeavoring to train men in commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service who has not been trained in the geography of this country and the world. The intelligent reading of current literature is demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Library offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote, in every way possible, productive scholarship, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of the *Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 28 and 52.

OFFERINGS IN GEOGRAPHY

PRIMARILY FOR UNDERGRADUATES

First Year

FIRST SEMESTER

10a	Fundamentals of Geography	102b	Geography of North America
		104b	Geography of Europe (To be omitted 1928-29.)

Second, Third, or Fourth Year

12	Weather and Climate. (Through the year.) (Omitted in 1927-28.)
	14b Economic Geography (Industrial) (To be omitted in 1928-29)

Third or Fourth Year

Geol. 12. General Geology. (Through the year.)

Geol. 121a Mineralogy. Geol. 122b. Economic Geology.

Phys. 19. Laboratory Meteorology. (Through the year.)

19b. Mathematical Geography. 190b. Cartography and Graphics.

(See also courses for graduate students and advanced undergraduates.)

A four-year sequence or *major* in Geography covering the requisite preliminaries for graduate work in the field is made up of the first six courses on the list (Geog. 10, 102, 104, 12, 14, and Geol. 12). A *minor* in Geography would normally include the first year courses (Geog. 10 and 102 or 104) and two or three of the others offered.

For *major or minor* in Meteorology and Climatology Geog. 12, 220 and 221, and Physics 19 and 29 are available, while for a *minor* in Meteorology, Geog. 12, and Physics 19 and 29 may be taken.

GEOGRAPHY FOR GRADUATES

The outline below indicates the broad opportunities for professional training in Geography offered at Clark. Those who need to fill gaps in subjects usually covered before entering the Graduate School may find the necessary elementary courses in the list for undergraduates above. Graduate students in History, Economics and Sociology can find Geography courses closely associated with their major work and acceptable for credit in their *major* department. In coöperation with the Physics Department advanced work in Meteorology is offered.

ADMISSION TO THE GRADUATE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A.M. degree two years will be required, except for those whose preparation has been sufficient to permit them to qualify in less time.

OUTLINE OF GRADUATE COURSES IN GEOGRAPHY AND CLOSELY RELATED FIELDS

(FOR 1928-29)

[Courses in brackets are alternates, to be offered in 1929-30.]

PRINCIPLES	REGIONAL APPLICATIONS
20a(3) Field Methods. Staff.	[211b(2) Physiographic Regions of the World. Atwood.]
[21a(2) Principles of Physiography. Atwood and ass't.]	211(4) Physiographic Regions of North America. Atwood.
Phys. 29 (6) Physics of the Air. Goddard and Brooks.	
[22a(2) Principles of Climatology. Brooks and ass't.]	[220b(2) Climates of the World. Brooks.]
33a(1) Soils. (Lectures.) Marbut.	221(4) Climatology of North America. Brooks.
23a(2) Plant Geography. Ekblaw.	[230b(2) Plant Regions of the World. Ekblaw.]
[Ec.32a(3) Land Economics. Brandenburg.]	231b(2) Plant Regions of North America. Ekblaw.
242a(2) Physical Bases of United States Agriculture. Ekblaw.	243b(3) Economic Geography of South America. C. F. Jones.
35b(3) Industrial Geography. C. F. Jones.	Hist. 211a(3) Historical Geography of the United States. Hedges.
[27a(3) General Principles of Anthropogeography. Semple.]	[274a(2) Geography of Northwest Europe. Semple.]
28b(3) Geography in Education. Ridgley.	275a(3) Geography of the Mediterranean Region. Semple.
Math.113a(3) Mathematical Theory of Statistics. Williams.	
Ec.16b(3) Statistics. Maxwell.	
29b(1) Graphics. Burnham.	

NOTE: The numbers in parentheses indicate semester hours credit.

In addition to the stated courses listed above there is a General Seminar (Geog. 301), a Theses Seminar (Geog. 30), and Research offerings (Geog. 300-390). All students are expected to attend and contribute to the General Seminar.

COURSES IN GEOGRAPHY

1. PRIMARILY FOR UNDERGRADUATES

10. FUNDAMENTALS OF GEOGRAPHY. A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships existing between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

Three hours, first semester. M. W. F., 8.

ASSISTANT PROFESSOR VAN VALKENBURG

102b. GEOGRAPHY OF NORTH AMERICA. An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents.

Open to Freshmen.

Three hours, second semester. M. W. F., 8.

Omitted in 1927-28

Professor Atwood and Assistant Professor Van Valkenburg

104b. GEOGRAPHY OF EUROPE.

Open to Freshmen.

Three hours, second semester. M. W. F., 8.

To be omitted 1928-29.

ASSISTANT PROFESSOR VAN VALKENBURG

107c. GEOGRAPHY OF THE FAR EAST.

Three hours, second semester. M. W. F., 11.

To be omitted 1928-29.

ASSISTANT PROFESSOR VAN VALKENBURG

GEOLOGY 12. GENERAL GEOLOGY. See page 111.

Three hours, through the year. M. W. F., 8; F. 2.

PROFESSOR LITTLE

12. WEATHER AND CLIMATE. This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out the intimate effects of the weather on all sorts of human affairs.

Elementary Meteorology is taken up systematically during the first semester, and elementary Climatology the second.

Three hours, through the year. Tu. Th. S., 8.

Occasional laboratory periods. Daily pilot balloon flights.
PROFESSOR BROOKS, assisted by Mr. Koeppé, 1st Semester; MR. KOEPPÉ, 2nd Semester.

Omitted in 1927-28.

PHYSICS 19. Laboratory Meteorology. (See page 131.)

One or three hours, through the year.

PROFESSOR GODDARD AND PROFESSOR BROOKS

14a. ECONOMIC GEOGRAPHY (Agricultural). A study of the influence of the natural environment on the production of and trade in the more important agricultural products. This course and 15b constitute a full year's course in Economic Geography.

Three hours, first semester. Tu. Th. S., 8.

To be omitted 1928-29. ASSOCIATE PROFESSOR JONES

15b. ECONOMIC GEOGRAPHY (Industrial). A study of the influence of the natural environment on the production of and trade in the more important mineral, forest, factory, and sea products; continental and ocean trade routes, major commercial divisions and trade regions of the world.

Three hours, second semester. Tu. Th. S., 8.

ASSOCIATE PROFESSOR JONES

To be omitted in 1928-29.

GEOLOGY 121a. MINERALOGY. See page 111.

Three hours, first semester. PROFESSOR LITTLE

GEOLOGY 122b. ECONOMIC GEOLOGY. See page 112.

Three hours, second semester. PROFESSOR LITTLE

19b. MATHEMATICAL GEOGRAPHY. A study of the earth's relations to the sun, moon and other heavenly bodies. The seasons, changing length of day and night, latitude and longitude, time and the calendar; the principal constellations. For teachers and others who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

Prerequisite: Geography 10a, or equivalent.

Three hours, second semester.

MR. BURNHAM

190b. CARTOGRAPHY AND GRAPHICS. Principles and practice of map-making, construction of diagrams, and relief drawings.

Prerequisite: Geography 10a, or equivalent.

Three hours, second semester.

MR. BURNHAM

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

20a. FIELD METHODS. An intensive field study of a portion of the Connecticut Valley in Massachusetts. Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this.

Prerequisites: Geography 10, or equivalent, and permission of the instructor.

Three hours, Sept. 26-Oct. 15, 1927; Sept. 24-Oct. 13, 1928.

STAFF

21a. PRINCIPLES OF PHYSIOGRAPHY. A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite: Geology 12, or equivalent in Physiography.

Two hours, M. 9, Tu. 2-3:30.

To be omitted in 1928-29.

PROFESSOR ATWOOD AND MR. W. R. ATWOOD

210b. PHYSIOGRAPHIC REGIONS OF THE WORLD.

Prerequisite: Geography 21a or equivalent.

Two hours, second semester. M. W., 9.

To be omitted in 1928-29.

PROFESSOR ATWOOD

211. PHYSIOGRAPHIC REGIONS OF NORTH AMERICA.

Prerequisite: Geography 21a or equivalent.

Two hours, through the year. M., 9. Tu. 2-3:30.

New course, to be offered in 1928-29. PROFESSOR ATWOOD

PHYSICS 29. PHYSICS OF THE AIR. (See page 132.)

PROFESSOR GODDARD AND PROFESSOR BROOKS

22a. PRINCIPLES OF CLIMATOLOGY. A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.

Prerequisite: Geography 12 or equivalent.

Two hours, first semester. Tu. W., 9.

To be omitted in 1928-29.

PROFESSOR BROOKS AND MR. KOEPPE

220b. CLIMATES OF THE WORLD. An explanatory comparison of the major types of climatic environment found in different parts of the world; *e. g.*, continental, marine and mountain climates.

Prerequisite: Geography 22a or equivalent.

Two hours, second semester. M. W., 10.

To be omitted in 1928-29.

PROFESSOR BROOKS

221a. CLIMATOLOGY OF NORTH AMERICA. Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original theses.

Prerequisite: Geography 22a or equivalent.

Two hours, through the year. Tu. W., 9.

Omitted, 1927-28.

PROFESSOR BROOKS

BOTANY 24a. GENERAL BOTANY TREATED FROM A TAXONOMIC AND ECOLOGIC STANDPOINT. (See page 88.)

Three hours, first semester. ASSISTANT PROFESSOR POTTER

23a. PLANT GEOGRAPHY. The responses of plants and plant groups to the factors of physical environment and their interrelationships. The physical bases of plant distribution.

Prerequisites: Botany 24a or equivalent, Geology 12 or equivalent in physiography, and Geography 12 or equivalent.

Two hours, first semester. M. W., 3.

ASSOCIATE PROFESSOR EKBLAW

230b. PLANT REGIONS OF THE WORLD.—The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities.

Prerequisite: Geography 23a.

Two hours, second semester. M. W., 11.

New course, to be offered 1927-1928.

ASSOCIATE PROFESSOR EKBLAW

231b. PLANT REGIONS OF NORTH AMERICA. An intensive study of plant distribution in North America.

Two hours, second semester.

New course, to be offered in 1928-29.

ASSOCIATE PROFESSOR EKBLAW

242a. PHYSICAL BASES OF UNITED STATES AGRICULTURE. A course in the relation of physical environment to the character of

land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Prerequisite: Geography 10, or equivalent.

Two hours, first semester. ASSOCIATE PROFESSOR EKBLAW

243b. **ECONOMIC GEOGRAPHY OF SOUTH AMERICA.** A detailed study of the economic activities of the people of South America in relation to the environment; the activities of the several regions of each country are analyzed in their relation to the elements of the natural environment separately and to the environment complex.

Prerequisite: Geography 14a, and Geography 12 and Geology 12.

Three hours, second semester. Tu. Th. S., 10.

ASSOCIATE PROFESSOR JONES

27a. **GENERAL PRINCIPLES OF ANTHROPOGEOGRAPHY.** This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastline, drainage systems, climate, and other geographic conditions both separately and in their mutual interplay. Ellen C. Semple's *Influences of Geographical Environment* will be used as a text.

Prerequisites: 9 hours of Geography or History, and permission of the instructor.

Three hours, first semester. M. W. F., 10.

To be omitted in 1928-29.

PROFESSOR SEMPLE

HISTORY 211a. **HISTORICAL GEOGRAPHY OF THE UNITED STATES.** (See page 123.)

Three hours, first semester. M. W. F., 11.

ASSISTANT PROFESSOR HEDGES

274a. **GEOGRAPHY OF NORTHWEST EUROPE.** This course includes a study of the climate, relief, coast line and marginal seas of the continent as a whole, to be followed by a detailed consideration of the economic and political geography of the Western European states.

25 appears to have been given in 1927-28 - what was it?
same as 25 in 1926-27, ~~Geog.~~? C. F. J. says "probably"
blue purple.

Prerequisite: 6 hours of European history.

Two hours, first semester. M. W., 2. PROFESSOR SEMPLE

To be omitted in 1928-29.

275a. THE GEOGRAPHY OF THE MEDITERRANEAN REGION, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites: 9 hours of Geography or History, and permission of instructor.

Three hours, first semester. M. W. F., 10.

Omitted in 1927-28. PROFESSOR SEMPLE

207b. THE GEOGRAPHY OF EASTERN ASIA. A lecture course with generous reading assignments.

Prerequisite: Geography 10a or some history of the Far East.

Three hours, second semester.

ASSISTANT PROFESSOR VAN VALKENBURG

Omitted in 1927-28.

32b. THE GEOGRAPHY OF AUSTRALASIA. A lecture course with generous reading assignments.

Two hours, second semester.

ASSISTANT PROFESSOR VAN VALKENBURG

To be omitted in 1928-29.

28b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American school system, including elementary school, high-school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites: Geography 10a and other geography courses totaling at least 18 hours.

Three hours, second semester. M. Tu. W., 8.

PROFESSOR RIDGLEY

29b. GRAPHICS. Construction of diagrams, and relief drawings.

One hour, second semester. M., 3.

PROFESSOR ATWOOD AND MR. BURNHAM

3. PRIMARILY FOR GRADUATE STUDENTS

30. SEMINAR IN GEOGRAPHY. Candidates for Master's and Doctor's degrees are directed in selection of themes for theses. Outline of theses are here presented for criticism, followed by presentations of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

Two hours, through the year. Tu., 10-12.

THE STAFF OF THE DEPARTMENT

301. GENERAL SEMINAR IN GEOGRAPHY. Meetings for discussion of contemporary advances in geography.

Hours to be arranged.

STAFF

300. RESEARCH IN REGIONAL GEOGRAPHY.

PROFESSOR ATWOOD AND ASSOCIATE PROFESSOR JONES

303. RESEARCH IN THE GEOGRAPHY OF SOUTH AMERICA.

ASSOCIATE PROFESSOR JONES

X> 310. RESEARCH IN REGIONAL PHYSIOGRAPHY. A critical review of the source material on Physiography and of leading contributions made by those who have developed this phase of geographic investigation.

PROFESSOR ATWOOD

320. RESEARCH IN CLIMATOLOGY OR CLIMATES OF THE WORLD. Special studies in the climates of particular regions or in comparative climatography.

PROFESSOR BROOKS

PHYSICS 30. RESEARCH IN METEOROLOGY.

PROFESSOR GODDARD AND PROFESSOR BROOKS

33a. SOIL GEOGRAPHY. Geographic types of soils, their mode of formation, and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture.

One hour, daily, 8 a.m., one month in Autumn. Field trips.

DR. MARBUT AND ASSOCIATE PROFESSOR EKBLAW

330. RESEARCH IN SOILS OR PLANT GEOGRAPHY.

DR. MARBUT OR ASSOCIATE PROFESSOR EKBLAW

ECONOMICS 32a. LAND ECONOMICS. (See page 106.)

Three hours, first semester. PROFESSOR BRANDENBURG

To be omitted in 1928-29.

* 309 Appears to have been given by Van Valkenburg (and semi) what was it? Same as Australasia, apparently, from entries on student's cards.
This per Mr. .

342b. LAND UTILIZATION AND AGRICULTURAL RESOURCES. This course outlines the physical and economic conditions which determine the utilization of land for crops, pasture, and forest; describes the geographic distribution of such lands; considers the probable need for these classes of land as population increases, and the possibilities of meeting this need by irrigation, drainage, clearing, more intensive cultivation, and other means; closing with a discussion of a national land policy.

Prerequisites: Geography 14, 21, and approved courses in Economics.

Three hours, second semester. M. Tu. W., 12.

ASSOCIATE PROFESSOR EKBLAW

340. RESEARCH IN LAND UTILIZATION.

ASSOCIATE PROFESSOR EKBLAW

35b. INDUSTRIAL GEOGRAPHY. A study of the chief manufacturing regions of the world and of special manufacturing industries in their geographic relations.

Prerequisites: Geography 15, and 21 or 22.

Three hours, second semester. M. Tu. W., 8.

ASSOCIATE PROFESSOR JONES

350. RESEARCH IN ECONOMIC GEOGRAPHY.

ASSOCIATE PROFESSOR JONES

37b. HISTORY OF GEOGRAPHY.

One hour, second semester. M., 3. PROFESSOR SEMPLE

370. RESEARCH IN ANTHROPOGEOGRAPHY.

PROFESSOR SEMPLE

39. RESEARCH IN GEOGRAPHY IN EDUCATION.

ASSOCIATE PROFESSOR RIDGLEY

390. FIELD GEOGRAPHY (Individual Work). For students in the field collecting information for their theses.

HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political

geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people, and it is necessary for all teachers of Geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer School work, is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

COURSES

1. THE TEACHING OF GEOGRAPHY IN THE ELEMENTARY SCHOOL.
2. THE TEACHING OF HOME GEOGRAPHY AND WORLD AS A WHOLE.
3. THE TEACHING OF NORTH AMERICA.
4. THE TEACHING OF SOUTH AMERICA, EUROPE AND ASIA.
5. THE TEACHING OF GEOGRAPHIC FACTORS AND THE UNITED STATES IN ITS WORLD RELATIONS.
6. INDUSTRIAL AND COMMERCIAL GEOGRAPHY.
7. GEOGRAPHY OF NORTH AMERICA.
8. GEOGRAPHY OF SOUTH AMERICA.
9. GEOGRAPHY OF EUROPE
10. GEOGRAPHY OF THE EASTERN CONTINENTS.
11. THE PHYSICAL GEOGRAPHY OF THE LANDS.
12. WEATHER.
13. ELEMENTS OF CLIMATOLOGY.
14. CLIMATES OF THE WORLD.
15. CLIMATOLOGY OF THE UNITED STATES.
16. MATHEMATICAL GEOGRAPHY.
17. GRAPHICS AND CARTOGRAPHY.
18. SPECIAL STUDIES IN GEOGRAPHY.

CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting

three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

The Summer School

The session of 1928 will begin July 2 and end August 10. Geography and History constitute the chief departments of instruction, while courses are offered also in Psychology, Economics, English, French, German and Geology.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the Collegiate and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a Bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

The Summer School Bulletin, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1927 will be found in the Register, beginning on page 156 of this Catalogue.

TRANSCONTINENTAL FIELD TRIP

Members of this field party will meet at Clark University at the opening of the Summer Session, July 2. One week of intensive study, under the guidance of the instructor in charge, will be given to the geography and the history of the regions to be visited. The party will leave Worcester on Monday, July 9, by de luxe motor coach for a journey of 8,000 miles during a

period of seven weeks, returning to Worcester on Friday, August 24.

The itinerary includes:

West-bound: Chicago, Yellowstone Park, Salt Lake City, San Francisco.

East-bound: Los Angeles, Phoenix, Grand Canyon, Dallas, Memphis, New York.

The cost of the trip is \$500, including tuition, transportation by motor coach from Worcester back to Worcester, hotel and meals while on trip. A payment of \$50 is made at time of enrollment. The balance is payable on or before May 5, 1928. Twenty-two students will make up the party. Early correspondence is requested.

FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

Arrangements have been made for two field trips following the Summer School. Each trip will be made by motor bus with accommodations for twenty-two persons. All trips begin Saturday, August 11, at 8 A. M., and continue for two weeks, returning to Worcester on Friday evening, August 24. These trips are open to any teacher or student who wishes to study geography out-of-doors, whether a member of the Summer School or not. The tuition fee for each trip is \$15; the cost of transportation is \$60; hotel expenses, including meals, is estimated at \$60. Persons coming from a distance to join either trip should arrive in Worcester not later than Friday, August 10. Rooms may be obtained near the University. Reservations will be made on request.

Each trip involves special studies of the natural environment, with definite relationship to human activities.

All inquiries concerning enrollment, reading lists, and more detailed plans of the various trips should be addressed to Clark University Summer School, Worcester, Massachusetts. As soon as reservation for a trip has been made, the student will be put into communication with the instructor in charge.

Early correspondence is invited, as final arrangements must be completed early in July.

NEW YORK STATE TRIP

This trip will be in charge of Mr. Guy H. Burnham, Cartographer, Clark University.

DUTCH AND QUAKER COLONIES FIELD TRIP

This trip will be in charge of Professor Edgar C. Bye, Instructor in History, Clark University Summer School.

Officers of Instruction and Administration

WALLACE WALTER ATWOOD, PH.D.

President of Clark University and Director of the Graduate School of Geography.

Not in residence in 1928.

DOUGLAS CLAY RIDGLEY, PH.D.

Geography

WALTER ELMER EKBLAW, PH.D.

Geography

Director of the Summer School and Professor of Geography in Education, Clark University.

Associate Professor of Geography and Managing Editor of *Economic Geography*, Clark University.

SAMUEL VAN VALKENBURG, PH.D.

Geography

Assistant Professor of Geography, Clark University.

PRESTON EVERETT JAMES, PH.D.

Geography

Assistant Professor of Geography, University of Michigan.

MYRTA LISLE McCLELLAN, B.S.

Geography

Assistant Professor of Geography, University of California, at Los Angeles.

CLARENCE EUGENE KOEPPE, A.M. Meteorology and Climatology

Research Fellow in Geography, Clark University, 1927-28.

GUY H. BURNHAM, A.M.

Cartography

Cartographer, Clark University.

HOMER PAYSON LITTLE, PH.D.

Geology

Dean of the College and Professor of Geology, Clark University.

MERLE EUGENE CURTI, PH.D.

History

Assistant Professor of History, Smith College.

EDGAR C. BYE, A.M.

History

Professor of Social Studies, State Teacher's College, Shippensburg, Pennsylvania.

DWIGHT ERWIN LEE, Ph.D.	History
Assistant Professor of Modern European History, Clark University.	
SAMUEL J. BRANDENBURG, PH.D.	Economics
Professor of Economics and Sociology, Clark University.	
DUDLEY WILSON WILLARD, PH.D.	Sociology
Assistant Professor of Sociology, Clark University.	
WILLIAM M. GREGORY, B.S.	Education
Professor of Geography, Cleveland Teachers' College,	
Director of Educational Museum of the Cleveland Public Schools.	
FRANK ARTHUR GELDARD, A.M.	Psychology and Education
Assistant in Psychology and Education, Clark University.	
EARL R. K. DANIELS, PH.D.	English
Professor of English, State Normal School, Buffalo, N. Y.	
ROBERT STANLEY ILLINGWORTH, A.B.	English and Dramatics
Professor of Public Speaking and Director of Dramatics, Lafayette College.	
PHILIP HUDSON CHURCHMAN, Ph.D.	French
Professor of Romance Languages, Clark University.	
THELKA E. HODGE, B. ED.	German
Head of the Department of Modern Languages, Athol, Mass., High School, 1920-1925.	
EUGENE C. BELKNAP	Source Material in Economic Geography
Curator, Department of Chemistry, Clark University.	
CAREY EYSTER MELVILLE, A.B.	Registrar
Registrar, Clark University.	
FLORENCE CHANDLER	Bursar

List of Courses

The starred courses (*) are those definitely intended for students who are candidates for the degree of Master of Arts in Clark University. Other qualified students are admitted to these courses.

GEOGRAPHY

SS101.	GEOGRAPHY OF NORTH AMERICA	MR. EKBLAW
*SS23.	GEOGRAPHY OF ASIA	MR. VAN VALKENBURG
SS102.	GEOGRAPHY OF A WORLD CRUISE	MR. RIDGLEY
SS14.	ECONOMIC GEOGRAPHY	MR. VAN VALKENBURG
SS12.	WEATHER	MR. KOEPPE
SS122.	CLIMATES OF THE WORLD	MR. KOEPPE
SS181.	THE TEACHING OF GEOGRAPHY	MISS McCLELLAN
SS180.	MATERIALS IN GEOGRAPHY	
		MR. RIDGLEY AND MR. BELKNAP
SS191.	GRAPHICS AND CARTOGRAPHY	MR. BURNHAM
SS190.	MATHEMATICAL GEOGRAPHY	MR. BURNHAM
SS11.	FIELD WORK IN GEOGRAPHY	MR. EKBLAW
*SS27.	INFLUENCES OF GEOGRAPHIC ENVIRONMENT	MR. EKBLAW
*SS28.	GEOGRAPHY IN EDUCATION FOR SPECIAL TEACHERS	MR. RIDGLEY
*SS280.	LABORATORY COURSE IN THE TEACHING OF GEOGRAPHY	MISS McCLELLAN
*SS204.	TRANSCONTINENTAL FIELD TRIP	MR. JAMES
*SS30.	SEMINAR IN GEOGRAPHY	THE GEOGRAPHY STAFF
*SS300.	RESEARCH IN REGIONAL GEOGRAPHY	MR. EKBLAW
*SS32.	RESEARCH IN CLIMATOLOGY	MR. KOEPPE
*SS34.	RESEARCH IN ECONOMIC GEOGRAPHY	MR. VAN VALKENBURG

GEOLOGY

SS1	PHYSICAL GEOLOGY	MR. LITTLE
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HISTORY

*SS21.	THE HISTORY OF EUROPE, 1500 TO 1815	MR. LEE
*SS22.	EUROPEAN INTERNATIONAL RELATIONS, 1870-1925.	MR. LEE
*SS23.	AMERICAN INTELLECTUAL HISTORY, FROM THE COLONIAL PERIOD TO THE PRESENT TIME	MR. CURTI
*SS210.	AMERICAN HISTORY, 1783-1865	MR. CURTI
SS151.	PROBLEMS IN AMERICAN GOVERNMENT	MR. BYE
SS16.	THE TEACHING OF HISTORY IN JUNIOR AND SENIOR HIGH SCHOOLS	MR. BYE
SS11.	FIELD WORK IN HISTORY	MR. BYE

ECONOMICS AND SOCIOLOGY

SS2.	PROBLEMS OF ECONOMICS	MR. BRANDENBURG
*SS5.	THE TARIFF IN THEORY AND PRACTICE	MR. BRANDENBURG
SS8.	EDUCATIONAL SOCIOLOGY	MR. WILLARD
*SS9.	SOCIAL PROBLEMS	MR. WILLARD

PSYCHOLOGY AND EDUCATION

SS5.	THE PROBLEM OF LEARNING	MR. GELDARD
SS9.	CLASSROOM ACTIVITIES AND EQUIPMENT	MR. GREGORY
SS10.	VISUAL AIDS IN INSTRUCTION	MR. GREGORY
SS11.	TESTS AND MEASUREMENTS APPLIED	MR. GELDARD

ENGLISH

SS2.	STUDIES IN ROMANTICISM: SHELLEY AND KEATS	MR. DANIELS
SS4.	CONTEMPORARY FICTION, BRITISH AND AMERICAN	MR. DANIELS
SS5.	DRAMATICS	MR. ILLINGWORTH
SS15.	FUNDAMENTALS OF PUBLIC SPEAKING	MR. ILLINGWORTH

FRENCH

SS1.	ELEMENTARY FRENCH	MR. CHURCHMAN
SS2.	READING OF FRENCH PROSE	MR. CHURCHMAN

GERMAN

SS1.	ELEMENTARY GERMAN	MRS. HODGE
SS2.	GRAMMAR REVIEW AND READING OF GERMAN PROSE	MRS. HODGE

The Bachelor of Education Degree

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.

Courses are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in three or four years the equivalent of a year of study in residence.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned in residence at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
 - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.
 - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.
 - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.

- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
 - (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course or its equivalent.
3. STANDARD OF SCHOLARSHIP: The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts.
4. ADVANCED STANDING:
- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
 - b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
 - c. Not more than 30 semester hours credit may be allowed for home study or extension courses, the acceptance of any work of this type to be subject to the approval of the Registrar.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

Special Courses for Teachers

In keeping with its long established policy, Clark University offers a series of Extension Courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises, the subject of aims and methods of teaching is treated in some of these extension courses.

During the academic year 1927-28, the following courses were given:

EDUCATION

1. ADVANCED EDUCATIONAL PSYCHOLOGY.

ASSOCIATE PROFESSOR VERNON JONES

CLARK UNIVERSITY

WORCESTER, MASSACHUSETTS

EXTENSION COURSES OF COLLEGE GRADE
FOR TEACHERS AND OTHERS

1927-28

Open to Men and Women

Courses meet once a week

Late Afternoons

Evenings or Saturday Mornings

PROGRAM OF COURSES

MONDAY

- 4.20-6.00 SPANISH, Churchman.
5.00-6.00 GRAPHICS AND CARTOGRAPHY, Burnham.
-

TUESDAY

- 4.00-6.00 EDUCATIONAL PSYCHOLOGY, V. Jones.
4.20-6.00 EUROPE AFTER THE WAR, Van Valkenburg.
PRINCIPALSHIP OF THE GRADED SCHOOL, Willard.
GERMAN, Bosshard.
7.00-9.00 BUSINESS MANAGEMENT, Lucas.
-

WEDNESDAY

- 4.20-6.00 ECONOMIC HISTORY OF WESTERN EUROPE, Maxwell.
PHYSICAL GEOGRAPHY, Little.
5.00-6.00 UNIFIED MATHEMATICS, Williams.
7.00-9.00 REGIONAL GEOGRAPHY OF NORTH AMERICA, C. Jones.
-

THURSDAY

- 4.20-6.00 BOTANY, Potter.
7.00-9.00 HEREDITY, Cole.
-

FRIDAY

- 4.20-6.00 FRENCH, L. L. Atwood.
-

SATURDAY

- 9.00-11.00 PUBLIC SPEAKING, G. E. Baker.
11.00-1.00 AMERICAN DRAMA, Dodd.

Aim and Character of the Extension Work

In keeping with its long established policy, Clark University will again offer during the academic year 1927-28 a series of courses designed both in respect to content and time of meeting for teachers in the schools of Worcester and the surrounding region. To meet an apparent demand, the list of courses here presented is somewhat more extensive than has been customary. The University will be pleased to continue or to amplify this program, as a service to the community, if the response to this offering indicates that there is a demand for such service.

In *content* these courses will primarily have the needs of the teacher in mind, and aim to provide up-to-date, exact and scholarly surveys of subject matter. An effort will also be made to touch upon *aims and methods*, and to provide a background for the solution of the practical problems of the classroom.

While especially intended for teachers in active work, these courses are open to other mature persons who are suitably prepared. Each applicant for credit will be expected to satisfy the instructor in charge as to his or her preparation for the course. Those who do not desire credit may be admitted as "auditors." The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University. Candidates for the Master's degree who desire to include these courses in their programs should secure the approval of their major departments in each case.

Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 26-Oct. 1 on the day specified after the description of each course.

Registration and Charges

Registration for these courses may be attended to at the first class meeting or earlier, at the office of the Registrar. Tuition charges, payable at the time of registration or at the first class meeting, will be—as last year—\$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 has been discontinued in the case of students taking courses without asking for credit toward a degree; payment of this fee is required, however, if and when the student becomes a candidate for a degree (at Clark or elsewhere), and desires credit for these courses.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration will also be of assistance in cases in which a decision is still to be made between courses; those courses for which a good demand is evident early will naturally receive the preference.

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

College credit for any extension course will be granted only when evidence of proper qualification

for such credit is presented, this evidence to include not only successful passing of the course, but preparatory training considered essential for admission to college work.

Courses will meet for periods of 50 or 100 minutes. The official hours for afternoon courses running for 100 minutes will be from 4.20 to 6.00; hours for Saturday courses and evening courses will be decided by the individual instructors.

Credit. One semester hour for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times. Two semester hours for a two-hour course (100 minutes) meeting 16 times.

For further information address:—

C. E. MELVILLE, *Registrar.*

LIST OF COURSES

Note: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

I. Biology

1. BOTANY—A study of the major groups of the Plant Kingdom. The structure and function of plants, their classification and their relation to the environment will be treated. David Potter, Assistant Professor of Biology.

Two semester hours *Thursdays, 4.20-6.00*

2. HEREDITY—An introduction to the principles of variation, selection and heredity; the physical bases of heredity; Mendelian and neo-Mendelian inheritance; and the application of such principles

to breeding and eugenics. Preliminary training in a general course in biology or zoology or botany, is strongly recommended, but not strictly required. William H. Cole, Professor of Biology.

Two semester hours

Thursdays, 7 to 9

II. Economics and Sociology

(a) ECONOMICS

1. ECONOMIC HISTORY OF WESTERN EUROPE—The development of European industry and commerce since the Industrial Revolution. Emphasis is placed upon Great Britain and the nations of western Europe. It is desirable that students electing this course should have had a course in Principles of Economics. James A. Maxwell, Assistant Professor of Economics.

Two semester hours

(First semester) Wednesdays, 4.20-6.00

2. ECONOMIC HISTORY OF THE UNITED STATES—The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. It is desirable that students electing this course should have had a course in Principles of Economics. James A. Maxwell, Assistant Professor of Economics.

Two semester hours

(Second semester) Wednesdays, 4.20-6.00

3. FUNDAMENTALS OF BUSINESS MANAGEMENT—This course is designed to present an introduction to the elements of business administration. Dis-

cussion will center around such problems as the formation of an administrative organization, the adjustment of relations between employer and employee, and the process of mercantile distribution. There will be lectures, collateral reading, and reports by members of the class. Arthur F. Lucas, Assistant Professor of Economics.

Two semester hours *Tuesdays, 7 to 9*

(b) SOCIOLOGY

THE PRINCIPALSHIP OF THE GRADED SCHOOL—Re-organization of Elementary Education; Growth of the Principalship; Supervision and the Improvement of Instruction; Social Aspects of Elementary Education with Special Attention to Curricula.

This course emphasizes particularly the growth of professional functions of principals and supervisors of elementary schools. Scope will be given to the interests of students working on special problems in this field. D. W. Willard, Assistant Professor of Sociology.

Two semester hours *Tuesdays, 4.20 to 6.00*

III. Education

1. PSYCHOLOGY—Advanced Educational Psychology: Techniques of Quantitative Experimentation in Education.

The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and bi-serial r ; partial and multiple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation,

and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments. *Open only to students holding the bachelor's degree.* Vernon A. Jones, Associate Professor of Educational Psychology.

Two semester hours

Tuesdays, 4-6

2. THE PRINCIPALSHIP OF THE GRADED SCHOOL.
(See Sociology).

IV. English

1. AMERICAN DRAMA—A study of representative American plays and playwrights from the Colonial period to the present. Class discussions, class reports, lectures. Loring H. Dodd, Professor of Rhetoric.

Two semester hours

Saturdays, 11 to 1

2. PUBLIC SPEAKING—This course is divided into two parts: (1) voice training and (2) extemporeaneous address. (1) The technique of controlled breathing, voice placement, the development of tone for resonance, projection, flexibility, range, smoothness, power, brilliancy. Articulation and pronunciation. Criticism of faults in the use of the voice. Prose and verse selections for vocal drill. (2) Impromptu speaking for platform deportment. Planning and outlining of speeches. Theory and practice in the delivery of speeches, expository and persuasive.—It is not proposed to include debate in the program. A course appropriate for public speakers, teachers of public speaking and students desirous of better oral expression. George E. Baker, Assistant Professor of English.

Two semester hours

Saturdays, 9-11

French: see Modern Languages

V. Geography*

1. REGIONAL GEOGRAPHY OF NORTH AMERICA—A study of the regional geography of North America with special adaptation for use of grade and high school teachers. Variable and special study will be made of grade and college texts in this field from the standpoint of organization, subject matter, illustrations, and methods. Clarence F. Jones, Associate Professor of Economic Geography.

Two semester hours Wednesdays, 7.00 to 9.00

2. EUROPE AFTER THE WAR—This course will deal with such topics as: Will Europe recover from the economic depression following the war? What are the present conditions and how can they be explained from the geographical background? What will be the economic relations between Europe and the United States in the future? These discussions will be based on recent literature and personal observations. S. Van Valkenburg, Assistant Professor of Geography.

- 3. GRAPHICS AND CARTOGRAPHY**—The first part of this course deals with the various graphic methods for presenting facts, while the second part is devoted to a study of the history, characteristics and uses of maps. The lessons and exercises are designed to aid teachers in making better use of graphs, maps and other similar materials in their classrooms. Guy H. Burnham, Cartographer, Graduate School of Geography.

* See also Geology: PHYSICAL GEOGRAPHY.

Lemonie Hwy⁹ - C. F. Jones
and son didn't give them a year

VI. Geology

PHYSICAL GEOGRAPHY—This course will furnish a basis for the understanding and appreciation of the surface features of the earth. Such topics will be discussed as: how the rocks break down into soil; how wells, springs, geysers and their deposits arise; how canyons, mountains and plains are formed; what are the evidences and results of the great ice age, especially around Worcester, as interpreted from our knowledge of living glaciers; why do we have volcanic eruptions and earthquakes?

The course will serve either to furnish a cultural background quite different from that of other subjects or to give a broader background for teaching this phase of general science. Homer P. Little, Professor of Geology.

Two semester hours *Wednesdays, 4.20-6.00*

German: see Modern Languages

VII. Mathematics

One of two courses, to suit the needs of those applying:—(1) ELEMENTARY COURSE IN UNIFIED MATHEMATICS, or (2) A SIMILAR ADVANCED COURSE. Frank B. Williams, Professor of Mathematics.

One semester hour *Wednesdays, 5.00-6.00*

VIII. Modern Languages

NOTE: Unless there is an unusual demand for courses in French, German or Spanish, only one course will be offered in each of those languages, preference being ordinarily given to the elementary courses. Early registration will help the instructors to decide what type of course is in greatest demand.

1. FRENCH. ELEMENTARY OR INTERMEDIATE (according to the demand)—L. L. Atwood, Assistant Professor of Romance Languages.

Two semester hours *Fridays, 4.20-6.00*

2. GERMAN—One of two courses is offered:—
(1) BEGINNING GERMAN, pronunciation, grammar, composition, reading of prose toward the end of the year; (2) EASY PROSE READING—the reading, at a rate of progress suited to the ability of the members of the class, of several pieces of easy prose such as those commonly read in college second-year German.—If a large number of applications should be made for both courses, it is possible that arrangements can be made to give them both. Heinrich Bosshard, Assistant Professor of German.

Two semester hours *Tuesdays, 4.20-6.00*

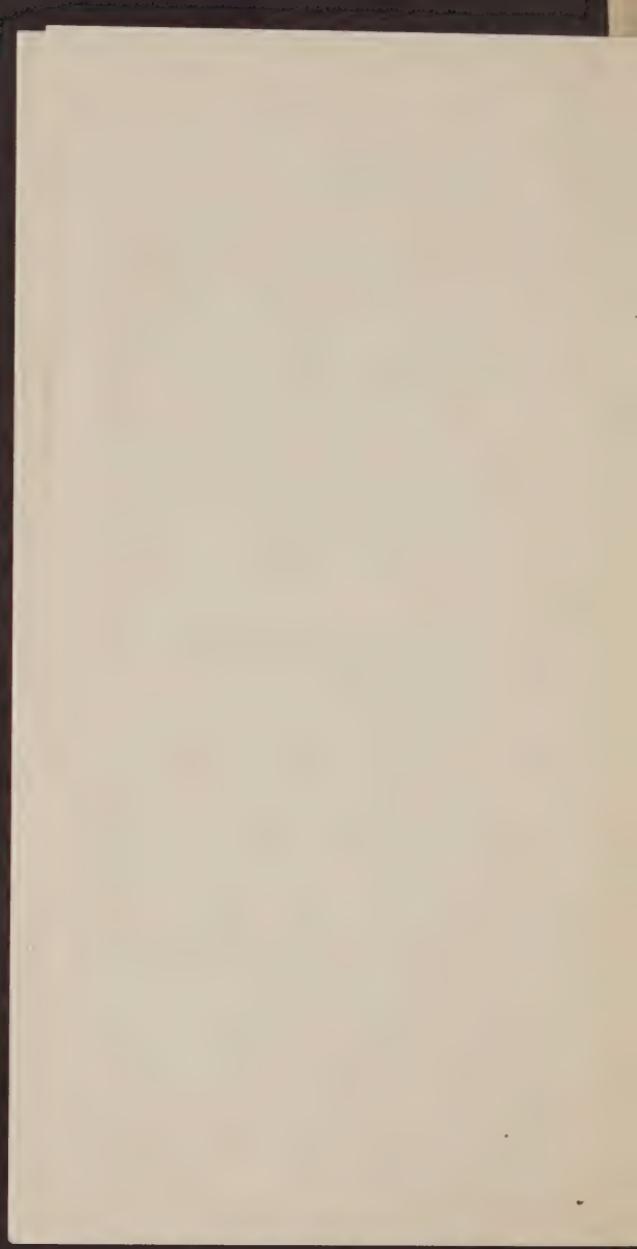
3. SPANISH. ELEMENTARY OR INTERMEDIATE (according to the demand.) Philip H. Churchman, Professor of Romance Languages,

Two semester hours *Mondays, 4.20-6.00*

Spanish: *see Modern Languages*

Additional courses meeting at other times and open to qualified students will be found in the regular University schedule. (See *Clark University Bulletin*.)

A list of extension courses to be offered in the second semester of this year will be announced later.



CLARK UNIVERSITY
WORCESTER, MASSACHUSETTS

EXTENSION COURSES OF COLLEGE GRADE
FOR TEACHERS AND OTHERS

SECOND SEMESTER

(Beginning Monday, Jan. 30, 1928)

*Open to Men and Women
Courses Meet Once a Week*

*Late Afternoons
Saturday Morning*

Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

College credit for any extension course will be granted only when evidence of proper qualification for such credit is presented, this evidence to include not only successful passing of the course, but preparatory training considered essential for admission to college work.

Courses will meet for periods of 50 or 100 minutes. The official hours for afternoon courses running for 100 minutes will be from 4.20 to 6.00; hours for Saturday courses and evening courses will be decided by the individual instructors.

Credit. One semester hour for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times. Two semester hours for a two-hour course (100 minutes) meeting 16 times.

For further information address:—

C. E. MELVILLE, *Registrar.*

LIST OF COURSES

Note: Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

I. Education

1. EDUCATIONAL SOCIOLOGY—The earlier part of this course will be devoted to a review of the teachings of sociologists about education; the remainder of the course will be devoted to a sociological analysis of education. Topics to be dealt with in this latter section of the course are: composition, training, and professional organization of the teaching personnel; pupil accounting and problems of educational adaptation and guidance, with special reference to methods of grading and promotion; and problems of curriculum construction. Opportunity will be given students to investigate and report upon problems of special interest to them. Some practical investigation will be expected of all who enroll for credit.

Two semester hours

Mondays, 4.20-6.00

D. W. WILLARD

II. English

MODERN POETRY—Discussions, critical papers, lectures.

Two semester hours

Saturdays, 11.00-1.00

L. H. DODD

III. French

1. INTERMEDIATE FRENCH—A continuation of the course given in the first semester. Further review of grammar, but with more attention given to the development of conversational ability. This course may be entered by properly qualified new students.

Two semester hours

Fridays, 4.20-6.00

L. L. ATWOOD

2. FRENCH SEMINAR—Reports by members of the class upon current periodicals and new books in the fields of literature, linguistics (including phonetics), and pedagogy.

One semester hour

Wednesdays, 5.00-6.00

P. H. CHURCHMAN

IV. Geography

1. THE SECOND HALF OF ECONOMIC GEOGRAPHY—The study of the chief manufacturing industries of the world and the chief manufacturing regions. While this course is a continuation from the first semester, persons who have not had the first half, and wishing to take up the work at this time may do so.

Two semester hours

Mondays, 4.20-6.00

CLARENCE F. JONES

2. THE GEOGRAPHY OF SOUTH AMERICA—A lecture course on the broader phases of the geography of South America. The material and subject matter will be adapted somewhat for teachers of the grades in which this continent is taught. Persons interested in the geography of South America may enter.

Two semester hours

Wednesdays, 4.20-6.00

CLARENCE F. JONES

3. ASIA; AUSTRALIA AND THE MALAY ARCHIPELAGO—This course will give, besides the geographic background, a picture of the different countries and their inhabitants, especially suited to teaching purposes. It is based for the greater part on personal experiences. Lantern slides will be liberally used.

Two semester hours

Thursdays, 4.20-6.00 S. VAN VALKENBURG

V. German

BEGINNERS' COURSE—This course will continue through the second semester. Prerequisites for new students: declension of nouns and adjectives, ability to read easy German texts as found in Pope, *German Reader*, Nos. 1-9.

Two semester hours

Tuesdays, 4.20-6.00 H. BOSSHARD

VI. Psychology

THE LITERATURE OF PSYCHOANALYSIS—A report-and-discussion group.

Two semester hours

Fridays, 4.20-6.00 RAYMOND R. WILLOUGHBY

VII. Sociology

See Education.



2. THE PRINCIPALSHIP OF THE GRADED SCHOOL.

PROFESSOR WILLARD

ENGLISH

- | | |
|------------------------------------|----------------|
| 1. AMERICAN DRAMA (first semester) | PROFESSOR DODD |
| 2. MODERN POETRY (second semester) | PROFESSOR DODD |

FRENCH

- | | |
|------------------------|--|
| 1. INTERMEDIATE COURSE | |
|------------------------|--|

ASSISTANT PROFESSOR L. L. ATWOOD

- | | |
|------------------------------|---------------------|
| 2. SEMINAR (second semester) | PROFESSOR CHURCHMAN |
|------------------------------|---------------------|

GEOGRAPHY

- | | |
|-----------------------|--|
| 1. ECONOMIC GEOGRAPHY | |
|-----------------------|--|

ASSOCIATE PROFESSOR CLARENCE JONES

- | | |
|--|--|
| 2. GEOGRAPHY OF NORTH AMERICA (first semester) | |
|--|--|

PROFESSOR JONES

- | | |
|---|--|
| 3. GEOGRAPHY OF SOUTH AMERICA (second semester) | |
|---|--|

PROFESSOR JONES

- | | |
|---|------------------------------------|
| 4. EUROPE, ASIA AND THE MALAY PENINSULA (second semester) | ASSISTANT PROFESSOR VAN VALKENBURG |
|---|------------------------------------|

GERMAN

BEGINNERS' COURSE ASSISTANT PROFESSOR BOSSHARD

It is expected that the giving of similar extension courses will continue as long as a demand is evident, the subjects varying from year to year.

The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University.

Departmental Announcements and List of Courses

Courses offered by the several departments are listed under three headings:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).
2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).
3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1928-29.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

DEPARTMENT OF ANCIENT LANGUAGES

PROFESSOR BRACKETT

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses, however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twenty-four semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. In admitting students to the college full credit is given for one, two, or three years of high school Greek. Those who have pursued success-

fully the study of Greek for two or three years may enter directly into course 12. Students who purpose to study Greek in college are strongly advised to take this subject in the preparatory school for two years if possible.

Since a substantial number of students are admitted to the college who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

COURSES IN GREEK

1. PRIMARILY FOR UNDERGRADUATES

11. FIRST YEAR COURSE. The purpose of this course is to furnish to students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific nomenclature should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 10.

PROFESSOR BRACKETT

12. XENOPHON, *Anabasis*; HOMER, *Iliad*. About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*. The aim in this work is distinctly literary. In order that the student may gain an appreciation of the poem as a whole, the entire poem is read, partly in Greek and partly in various verse translations.

Open to Freshmen.

Three hours, through the year. M. W. F., 11.

PROFESSOR BRACKETT

13. THE GREEK DRAMA. Aeschylus, *Prometheus Bound*; Sophocles, *Oedipus Tyrannus*; Euripides, *Hippolytus*. This course is designed to give a general view of Greek tragedy. Lectures or discussions deal with the staging of a Greek play, the origin and development of the drama, and the other works of the

authors read. Two or three other plays of each of these authors are read in translation and discussed in class.

Three hours, through the year.

Omitted in 1927-28.

14. HERODOTUS; LYRIC POETRY; THEOCRITUS.

Three hours, through the year.

Omitted in 1927-28, and to be omitted in 1928-29.

16b. GREEK TRAGEDY IN ENGLISH. This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and modern drama. The instructor will deal, in lectures, with the origin and development of Greek tragedy, the Greek theatre and related subjects, and Aristotle's theories concerning tragedy.

Three hours, second semester.

Omitted in 1927-28.

PROFESSOR BRACKETT

COURSES IN LATIN

1. PRIMARILY FOR UNDERGRADUATES

11. FIRST YEAR COURSE. This course is designed to give men who have never studied Latin an opportunity to learn the essentials of the subject in college. It is conducted entirely with reference to the needs of the general student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the department.

Three hours, through the year. M. W. F., 8.

PROFESSOR BRACKETT

12. CATULLUS, Selections; CICERO, *de Senectute*; HORACE, Selections from the Odes. The year is about equally divided between the three authors. The study of Catullus and Horace is mainly literary; and in this connection a careful study is made of the nature and principles of literature.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

PROFESSOR BRACKETT

14b. LETTERS OF PLINY; SELECTIONS FROM THE HISTORIES OF TACITUS, AND FROM JUVENAL. These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

Three hours, second semester.

Omitted in 1927-28 and to be omitted in 1928-29.

15a. SELECTIONS FROM CAESAR AND CICERO. This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

Three hours, first semester.

Omitted in 1927-28.

15b. SELECTIONS FROM OVID'S *Metamorphoses*.

Three hours, second semester.

Omitted in 1927-28.

16a. LUCRETIUS, *de Rerum Natura*, Selections.

Three hours, first semester.

Omitted in 1927-28.

PROFESSOR BRACKETT

DEPARTMENT OF BIOLOGY

PROFESSOR COLE,* ASSISTANT PROFESSORS POTTER AND
RICHARDS**

The courses in Biology are designed to meet the needs of four general classes of students. Courses 11, 14, 20, 23, 24, 30 and 31 are offered every year; the other courses alternate yearly.

The first class of students consists of those who desire to take Biology as a minor to supplement other courses or as a general cultural subject. Such students will take Biology 11, followed by any of the other courses open to them.

The second class includes those who wish to prepare themselves to study Medicine or Sanitary Science. These students should *major* either in Biology or Chemistry. A *major* in Biology requires twenty-four semester hours, which, for premedical students, should include courses 11, 13, 15 and 16. The subjects pursued will then be General Biology, Vertebrate Anatomy, Em-

*First semester.

**Second semester.

bryology and Histology. Students preparing to take up the study of Sanitation should add to the premedical subjects course 18, and if possible, course 20 also.

The third class comprises those who intend to make Biology their profession; who wish to prepare themselves to teach the subject and to become skilled investigators. Such students should *major* in Biology, and should confer with the instructors in the department before planning their programs. Supplementary minor courses shall be taken in Chemistry, Physics, Geology and Psychology, with at least two-thirds of them in Chemistry and Physics.

The fourth class consists of graduate students who desire to pursue research work in Biology with the possibility of satisfying the requirements for the degree of Master of Arts. For such students correlative courses in Chemistry, Physics, Geology and Mathematics are required, the number and extent to be determined upon consultation with the head of the Biology department. Opportunity is afforded for instruction, supervised experimental work and for independent investigation. The laboratories are equipped with the usual apparatus and materials needed in biological study, and any additional equipment required for special purposes will be provided whenever possible. Conditions are favorable for consultation of biological literature, since the library has complete files of the more important journals in Zoölogy, Physiology and Biological Chemistry, as well as a large collection of books in these and other branches of Biology.

Graduate scholarships are available for students in this department.

COURSES IN BIOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL BIOLOGY. This course is designed to acquaint the student with the elementary forms, forces and laws of living matter. In addition to class-room work, illustrative types are observed in the laboratory, and simple experiments are performed. The first semester deals with plant biology, furnishing the students with a general knowledge of plant life, with emphasis placed upon those plants which illustrate best the laws of life, and the agencies at work which have produced the present varied

flora. The second semester considers animal biology with emphasis placed upon the morphological and physiological features of animals in comparison and contrast with those of plants. The subjects of behavior, genetics and evolution are treated during the latter part of the semester. This course is prerequisite to all other courses in Biology. Three lectures and one laboratory period per week. Due to limited accommodations, the number of students accepted for this course is restricted.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W., 2.

ASSISTANT PROFESSOR POTTER, first semester.

ASSISTANT PROFESSOR RICHARDS, second semester.

13a. COMPARATIVE ANATOMY OF VERTEBRATES. A comparative study of the structure and development of vertebrate animals. This course is designed to meet the needs of prospective students of Medicine, and those who intend to *major* in Biology. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, first semester. ASSISTANT PROFESSOR POTTER

To be offered in 1928-29 and alternate years.

14. BOTANY. This course deals with a more detailed study of plant life and serve as a continuation course after Biology 11. Emphasis is placed upon those groups of plants which are of evolutionary significance. In addition this study will be augmented in the spring by field work to acquaint the student with the local flora. Prerequisite Biology 11. Three lectures and one laboratory period per week.

Three hours, through the year. Tu. Th. S., 11; Th., 2.

ASSISTANT PROFESSOR POTTER

15a. EMBRYOLOGY. The origin of the germ cells and of the individual; the development of the individual from the egg to the adult, with consideration of the problems of differentiation. The laboratory work includes an introduction to embryological technique and the dissection of the early stages of representative vertebrates. Prerequisite is Biology 11, with Biology 13 recommended. Two lectures and two laboratory periods per week.

Three hours, first semester. W. F., 9; M. Tu., 2, and additional period.

ASSISTANT PROFESSOR POTTER

To be offered in 1929-30, and alternate years.

16b. HISTOLOGY. A study of the cellular structure of organisms, including an introduction to histological technique. Prerequisite is Biology 11, with Biology 13 recommended. Two lectures and two laboratory periods per week.

Three hours, second semester.

ASSISTANT PROFESSOR POTTER

To be offered in 1928-29, and alternate years.

18b. BACTERIOLOGY. An introduction to the principles of bacterial physiology, and to general bacteriological technique. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

Three hours, second semester. W. F., 9; Tu., 2, and additional period.

ASSISTANT PROFESSOR POTTER

Given in 1927-28, and alternate years.

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES.

20. GENERAL PHYSIOLOGY. An introduction to the study of the fundamental properties of living matter; its composition, organization and behavior. Emphasis is placed upon the laboratory work involving experiments with living organisms and the interpretations of results. Prerequisite is Biology 11; Chemistry 11 and Physics 11 are also desirable. Two lectures and two laboratory periods per week.

Three hours, during the year. Tu., 11-1; Tu. W., 2.

PROFESSOR COLE, first semester.

ASSISTANT PROFESSOR RICHARDS, second semester.

21a. INVERTEBRATE ZOOLOGY. A detailed study of the structure, life-histories and behavior of representative invertebrate animals. Emphasis is placed upon the laboratory work. Prerequisites are Biology 11, 13 or 15, and 16.

Three hours, first semester. M. 2-5.

Two lectures and two laboratory periods per week.

Offered in 1927-28 and alternate years. PROFESSOR COLE

22b. GENETICS. The principles of variation, selection, and heredity; the physical bases of heredity; Mendelian and non-Mendelian inheritance and the application of their laws to breeding and eugenics are the topics considered in this course. Illustrative laboratory experiments are performed. Prerequisites are Biology 11. Two seminars and two laboratory periods per week.

Three hours, first semester.

To be offered in 1928-29 and alternate years.

23. SPECIAL PROBLEMS. Students who wish to pursue any of the subjects described above in more detail, or any other approved biological subject will be assigned laboratory work and library work, planned in accordance with the preparation and abilities of the individual students. Reports will be made twice weekly. Prerequisites are at least six semesters of Biology courses in which a rank in the upper half of the respective courses was maintained.

Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

24a. TAXONOMY AND ECOLOGY OF PLANTS. A study of the main types of vegetation with special emphasis upon the Flowering Plants. The use of keys for the identification of plants together with field trips will constitute the laboratory work. Three lectures and one laboratory period per week.

Three weeks, first semester. M. W. F., 11.

ASSISTANT PROFESSOR POTTER

3. PRIMARILY FOR GRADUATE STUDENTS

30. RESEARCH. Original investigation of approved subjects, with conferences and reports, in the fields of General Biology, or General Physiology. Prerequisites are at least six semesters of Biology, Chemistry 11, Physics 11 or 112 and Mathematics 11 or 18, or their equivalents.

Hours and credit to be arranged.

PROFESSOR COLE AND ASSISTANT PROFESSOR RICHARDS

31. RESEARCH. A course similar to 30 in the fields of Plant Morphology, Physiology or Evolution.

ASSISTANT PROFESSOR POTTER

Hours and credit to be arranged.

DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSISTANT
PROFESSOR BULLOCK

The instruction offered in Chemistry falls into two main groups:

First, courses intended primarily for undergraduates. These

are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

UNDERGRADUATE WORK

Students who expect to make Chemistry a profession should *major* in Chemistry and should either take a *minor* in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. Courses 11, 13, 15 and 110 are essential. Courses 14, 18, and 216 should be included, if possible. In fact, the subject of Physical Chemistry, course 18, is even now required for admission to some of the medical schools and is almost equally essential with the courses before mentioned. Attention is called to the statement regarding pre-medical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 29.

GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires equally a thorough familiarity with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide

the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

The degree of Master of Arts is the only advanced degree granted.

All students registered for the advanced degree are expected to devote not less than eighteen hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic, and physical Chemistry.

Graduate scholarships are available for students in this department.

COURSES IN CHEMISTRY

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL CHEMISTRY. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen.

Three hours, through the year. M. W. F., 11; M., 2.

PROFESSOR MERIGOLD

12. ELEMENTARY CHEMISTRY. Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to Course 11 as preparation for advanced courses.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9; W., 2.

ASSISTANT PROFESSOR BULLOCK

13. **QUALITATIVE ANALYSIS.** Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

Three hours, through the year. Tu. F., 2.

PROFESSOR WARREN

14. **QUANTITATIVE ANALYSIS.** Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

Three hours, through the year. Tu. Th., 3:30.

PROFESSOR MERIGOLD

15. **ORGANIC CHEMISTRY.** Systematic study of the compounds of carbon and their applications to the arts. Three lectures per week. Open to all who have taken course 11 or its equivalent.

Three hours, through the year. M. W. F., 8.

PROFESSOR WARREN

18. **PHYSICAL CHEMISTRY.** Two lectures and three hours of laboratory a week, introducing the student to the principal chapters of modern chemical theory. To be admitted to this course, students must have passed Chemistry 11 and 14 and Physics 11. A knowledge of organic chemistry and calculus is desirable.

Three hours, through the year. W. F., 9; F., 2.

ASSISTANT PROFESSOR BULLOCK

110. **ORGANIC SYNTHESIS AND ANALYSIS.** Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires

nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

Three hours, through the year. M. Th., 2.

PROFESSOR WARREN

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

212b. HISTORY OF CHEMISTRY. This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 11 and 15 or equivalent courses.

Three hours, second semester. Tu. Th., 11.

PROFESSOR MERIGOLD

214. ADVANCED QUANTITATIVE ANALYSIS (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who intend to study Medicine. The laboratory work will be varied, if desired, to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week.

Three hours, through the year. Tu. Th., 2.

PROFESSOR MERIGOLD

215. ADVANCED ORGANIC SYNTHESIS. In this laboratory course, newer methods of preparation are studied, and an original investigation is initiated.

Three hours, through the year. M. Th., 2.

PROFESSOR WARREN

216. JOURNAL READING. Practice in the use of current chemical literature. Assignment of journals for report and discussion.

Two hours, through the year. Tu. F., 4.

PROFESSOR WARREN

217. INTERMEDIATES AND DYESTUFFS. A lecture course cov-

ering the first semester methods of preparation, properties and uses of the commoner intermediates employed in dyestuff manufacture and during the second semester methods of preparation and application of typical representatives of the more important classes of dyestuffs.

Open to graduate students and undergraduates who take or have taken course 15.

Three hours, through the year. M. 9., W. F., 12.

PROFESSOR WARREN AND ASSISTANT PROFESSOR BULLOCK

3. PRIMARILY FOR GRADUATE STUDENTS

31. ADVANCED INORGANIC CHEMISTRY. Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

Twice a week, through the year, with laboratory work.

Omitted in 1927-28.

PROFESSOR MERIGOLD

32. ADVANCED THEORETICAL CHEMISTRY. Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of the Phase Rule and the determination of the free energy of chemical reactions.

Three hours, through the year. Tu. Th. F., 9.

PROFESSOR MERIGOLD

33. ADVANCED ORGANIC CHEMISTRY. Conferences are held at which the fundamental conceptions and problems of organic chemistry are dealt with in a systematic manner. Current literature, applicable to the subjects under discussion, is reviewed.

Twice a week, through the year. M. F., 11.

PROFESSOR WARREN

35b. SEMINAR. Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

Once a week, second semester. W., 5.

STAFF OF THE DEPARTMENT

DEPARTMENT OF ECONOMICS AND SOCIOLOGY
PROFESSOR BRANDENBURG, ASSISTANT PROFESSORS MAXWELL
LUCAS AND WILLARD

A liberal education implies some systematic knowledge of the organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction has already begun and will continue in the immediate future as rapidly as facilities permit.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses attempt not only to give a knowledge of the science, but aim to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.

Economics and Sociology are most happily associated, whether as *major* or *minor* subjects, with work in the departments of History and International Relations, Geography and Geology in

their more economic aspects, Psychology, and English. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his *minor* subject; or, one whose *major* interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b, and, under unusual circumstances, of Sociology 11. Sociology 11 is a prerequisite to further work in Sociology. Undergraduates majoring or minoring in either branch of the department are urged to take Economics 11 in their Sophomore and Sociology 11 in their Junior year; only under unusual conditions should they postpone these introductory courses. Students who believe that they will major in the department are urged to take Economics 10 in their Freshman year.

GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate major, *i.e.*, twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other minor aids are available to students in the department (see catalogue, page 52; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students).

The attention of students in Economics and Sociology is di-

rected also to closely allied courses offered in the Departments of Geography, Geology, History and International Relations, Mathematics and Psychology.

COURSES IN ECONOMICS

1. PRIMARILY FOR UNDERGRADUATES

10. SOCIAL SCIENCE SURVEY. A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present day industrial world, such as: mechanization of industry; specialization in production; division of labor; reliance on power; natural resources and raw materials; markets; population; migration of peoples; regional, national and international interdependence, rivalries, and conflicts; the place of the United States in the world economy; problems of national concern, such as group and "bloc" interests, immigration, racial issues, big business, the tariff; monopoly, competition, private property, inheritance; diffusion and concentration of wealth.

Indivisible course, designed especially for Freshmen; Sophomores may take the course with reduced credit.

Three hours, through the year. M. W. F., 9.

To be omitted in 1928-29.

PROFESSOR BRANDENBURG

11. PRINCIPLES OF ECONOMICS. An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Prerequisite, Sophomore standing; Economics 10 desirable. Indivisible course.

Three hours, through the year. M. W. F., 10.

ASSISTANT PROFESSOR LUCAS

13. MONEY, BANKING, AND THE BUSINESS CYCLE. The principles of money and banking, with special reference to their functions in the present economic organization of society. History of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail.

Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

Three hours, through the year. M. W. F., 10.

To be omitted in 1928-29. ASSISTANT PROFESSOR MAXWELL

14a. ECONOMIC HISTORY OF WESTERN EUROPE. The development of European industry and commerce since the Industrial Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, first semester. M. W. F., 9.

Omitted in 1927-28. ASSISTANT PROFESSOR MAXWELL

14b. ECONOMIC HISTORY OF THE UNITED STATES. The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28. ASSISTANT PROFESSOR MAXWELL

15a. PUBLIC FINANCE. A study of the principles of public expenditures, revenues, and debts, with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

Three hours, first semester. M. W. F., 9.

To be omitted 1928-29. ASSISTANT PROFESSOR MAXWELL

16b. STATISTICS. Methods of collecting, utilizing, and presenting statistical data with special reference to economic statistics. Text-books, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

Three hours, second semester. M. W. F., 10.

To be offered as a first semester course in 1928-29.

ASSISTANT PROFESSOR MAXWELL

117b. PRINCIPLES OF ACCOUNTING. The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. A two-hour laboratory period will be required. Prerequisite, Economics 11.

Three hours, second semester. Tu. Th., 10., Th., 2-4.

Omitted in 1927-28.

ASSISTANT PROFESSOR LUCAS

18a. BUSINESS ORGANIZATION. This course, together with Economics 117b, 18b, and 29b, is designed to give the student a two-year program of studies in the business aspects of economics. It discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. Prerequisite, Economics 11.

Three hours, first semester. Tu. Th. S., 10.

To be omitted in 1928-29.

ASSISTANT PROFESSOR LUCAS

18b. BUSINESS FINANCE. This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. The relation of government to business is also considered. Prerequisites, Economics 11 and 18a.

Three hours, second semester. Tu. Th. S., 10.

To be omitted in 1928-29.

ASSISTANT PROFESSOR LUCAS

19b. ECONOMICS OF TRANSPORTATION. History and present status of rail, water, and highway transport; theories of rate-making; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

Three hours, second semester. Tu. Th. S., 9.

To be omitted in 1928-29.

ASSISTANT PROFESSOR LUCAS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. LABOR PROBLEMS. A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the labor

of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites, Economics 11 and 14b.

Three hours, through the year. M. W. F., 11.

To be omitted in 1928-29.

PROFESSOR BRANDENBURG

210b. ECONOMIC AND SOCIAL REFORM. The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisite, Economics 11 and 14a or 14b.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28.

PROFESSOR BRANDENBURG

23b. RECENT MONETARY AND FINANCIAL PROBLEMS. This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal European countries and the United States. The relationship between these changes and government finance will receive attention together with recent proposals for monetary reform. Reports and a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

Three hours, second semester. M. W. F., 10.

Omitted in 1927-28.

ASSISTANT PROFESSOR MAXWELL

25b. PROBLEMS IN PUBLIC FINANCE. Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28 and to be omitted in 1928-29.

ASSISTANT PROFESSOR MAXWELL

26a. BUSINESS CYCLES. This course will deal with the various theories purporting to explain the business cycle, the devices by which cyclical fluctuations can be foreseen and modified, and the

effects of the cycle upon speculation, production and money markets. An historical examination of price movements and of the major crises in the United States will be attempted. Reports and a thesis will be required. Prerequisites, Economics 11 and 16b.

Not to be offered before 1929-30.

27a. INTERNATIONAL TRADE AND INTERNATIONAL FINANCE. This course will acquaint the student with the nature and theoretical basis of foreign trade. A thorough analysis will be made of the principles underlying the international movement of goods. The foreign trade of the United States, its effects on our economic and social life, the channels of trade, methods of ocean transportation, the financing of foreign trade with emphasis on foreign exchange, government promotion and interference with trade with especial attention paid to protective tariffs are some of the more important problems to be discussed.

Prerequisite, Economics 11. It is desirable that students should also have completed Economics 13.

Three hours, first semester. Tu. Th. S., 9.

ASSISTANT PROFESSOR LUCAS

27b. FOREIGN TRADE PRACTICE. A continuation of Economics 27a, with emphasis on practical problems of foreign trade. The technique of importing and exporting, foreign currencies, credits and banking practices, national customs and laws which promote or hinder trade development, governmental policies toward foreign trade, and national monopolies. Prerequisite, Economics 27a.

Three hours, second semester.

To be omitted in 1928-29. ASSISTANT PROFESSOR LUCAS

28. MARKETING STUDIES. This course consists of the first hand analysis of some of the important problems connected with the selling and physical distribution of goods. The work will consist partly of outside reading and formal class room discussion, but chiefly of independent research under the direction of the instructor in charge. The problems to be considered will be chosen on the basis of the qualifications and the interests of the students. Enrollment limited, consent of the instructor required.

Three hours, through the year. Tu. Th. S., 9.

A new course to be offered in 1928-29.

ASSISTANT PROFESSOR LUCAS

29b. INVESTMENTS. The primary purpose of this course is to acquaint the student with the chief problems arising in the proper handling of investment funds. The economic theory of investments, the forms of investment securities, the requisites of sound investments, and the mechanics of investment are considered at some length. The point of view of the investing public is stressed throughout. Prerequisites, Economics 11 and either Economics 117b or 18b.

Three hours, second semester. Tu. Th. S., 10.
Not to be offered before 1929-30.

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL ECONOMIC POLICIES. National tariff policies or other commercial restrictions with the international problems arising therefrom; national, private, or public establishments for the promotion of foreign trade; banking and credit facilities as factors in foreign trade; commercial treaties; navigation laws and general maritime policies of important commercial nations.

Two hours, through the year. M., 7-9.
To be offered as a second semester course in 1928-29.

PROFESSOR BRANDENBURG

32b. LAND ECONOMICS. Land Economics is a study of those social and economic relationships arising out of man's dependence on land as a factor in the production of economic goods. The course studies the economic concept of land in contrast with the geographical and legal concepts; property in land and forms of land tenure; the economic characteristics of land as contrasted with the other factors of production; costs involved in adapting land to the needs of men; rent and income from land together with an intensive study of the theory of rent as applied to various types of land; rural and urban tenancy and ownership; land taxation, land credit, land values, etc.

Three hours, second semester.
Omitted in 1927-28.

PROFESSOR BRANDENBURG

38a. HISTORY OF ECONOMIC THOUGHT TO THE END OF THE 18TH CENTURY. Study will be made of those periods important in the history of economic thought, starting with Greek antiquity.

Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period, the contributions of the Mercantilists, the Physiocrats and Adams Smith will be estimated.

Three hours, first semester. M. F., 3:30-5.

To be omitted in 1928-29. ASSISTANT PROFESSOR MAXWELL

38b. MODERN ECONOMIC THOUGHT. The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

Three hours, second semester. M. F., 3:30-5.

To be omitted in 1928-29. ASSISTANT PROFESSOR MAXWELL

39. VALUE AND DISTRIBUTION. An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nineteenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion in which the students are expected to take an active part. Indivisible course.

Three hours, through the year.

Omitted in 1927-28. ASSISTANT PROFESSOR MAXWELL

311. SEMINAR IN ECONOMICS AND SOCIOLOGY. Round-table meetings are held fortnightly in the evening for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on matters of general interest. All graduate students in the Department are expected to attend. Seniors *majoring* in Economics and Sociology are urged to do so.

Second and fourth Thursdays of each month at 7:30.

THE STAFF OF THE DEPARTMENT

COURSES IN SOCIOLOGY

1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 10)

11. INTRODUCTION TO SOCIOLOGY. This course will afford familiarity with the materials of Sociology, knowledge of the

scope of Social Science, and an insight into methods of studying society. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Prerequisite, Junior standing. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology.

Indivisible course.

Three hours, through the year. Tu. Th. S., 8.

To be offered in 1928-29. ASSISTANT PROFESSOR WILLARD

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES.
(See also Economics 210b and Economics 22)

23a. PRINCIPLES OF SOCIAL WORK. A review of the special fields of social work; standards of professional competency in each; curricula and methods of training in social work; the socialization of professions and occupations and their contributions to social work; the application of science to the fields of social work; problems and projects for the study of social work by the "case" method. The local field of social work will supply the laboratory materials for the course. To be offered 1928-29 and alternate years thereafter. Prerequisite, Sociology 11.

Three hours, first semester.

Not to be offered before 1929-30.

ASSISTANT PROFESSOR WILLARD

23b. ORGANIZATION AND ADMINISTRATION OF SOCIAL WORK. This course offers a survey of the fields of both volunteer and public social work; the history, services, organization, and administration of agencies in each; a study of some of the recent programs of volunteer associations; relations of public and private effort; all based upon a summary of the social problems faced by welfare agencies. It includes problems of social policy and administrative efficiency in the control, supervision, coordination, standardization and development of public and volunteer work. Local institutions and agencies will supply the laboratory materials for this course. Prerequisite, Sociology 23a.

Three hours, second semester.

ASSISTANT PROFESSOR WILLARD

Not to be offered before 1929-30.

25. EDUCATIONAL SOCIOLOGY. The major content of this course will be: social principles of education; movements for the reconstruction of the curriculum; socialization of administration and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11. To be offered 1927-28 and alternate years thereafter.

Three hours, through the year. Tu. Th. S., 10.

ASSISTANT PROFESSOR WILLARD

27. REGIONAL SOCIOLOGY. A survey and analysis of the community (city and county) of Worcester, including sociological interpretations of the life of the people, their institutions and industries. Special inquiries into particular community problems. Original field studies required. Prerequisite, Sociology 11.

Divisible course.

Three hours, through the year. Laboratory Th., 2-6., and an additional class hour to be arranged.

ASSISTANT PROFESSOR WILLARD

28. POPULATION PROBLEMS. A review of the biological theories of society; modes of limitation and selection of population; vital statistics and population trends; a survey of resources for the support of population; past and prospective modes of control; influence of selective factors on welfare; problems of race, family, and general progress associated with population changes. Prerequisite, Sociology 11. To be offered in 1928-29, and alternate years thereafter.

Three hours, through the year. T. Th. S., 10.

New course to be offered 1928-29.

ASSISTANT PROFESSOR WILLARD

3. PRIMARILY FOR GRADUATE STUDENTS (See also Economics 311)

31. SEMINAR IN SOCIAL WORK. Intended for specially qualified graduate students and those in responsible social work positions in the community. The seminar will be devoted to problems of family welfare and community work. The exact content of the course is determined from year to year by the major inter-

ests, abilities, and the training and experience of students electing. Prerequisite, graduate standing or equivalent experiences in practical work, to be determined by conference with the instructor.

Two hours, through the year. F. 4-6.

ASSISTANT PROFESSOR WILLARD

32. SOCIOLOGY SEMINAR. Intended for students of graduate standing working on research projects.

Two hours, through the year. Hours to be arranged.

ASSISTANT PROFESSOR WILLARD

DEPARTMENT OF ENGLISH

PROFESSOR AMES, PROFESSOR DODD, ASSISTANT PROFESSOR
BAKER

Prescribed work in English consists of English 11, required of all Freshmen, and six semester hours in English literature, or English 14 and 3 semester hours of English literature, required of all students, to be completed by the end of the junior year. English 14 is required of all Sophomores who have not attained high standing in English 11. A *major* in English consists of twenty-four semester hours, including English 11; a *minor*, of eighteen semester hours, including English 11.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department for the best undergraduate verse. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

1. PRIMARILY FOR UNDERGRADUATES

11. ENGLISH COMPOSITION. The course aims through constant practice in composition and the reading of literature to give the student greater facility in written expression.

Required of Freshmen.

Three hours, through the year. Tu. Th., 8 and 9, and M. W. F., 10. PROFESSOR DODD AND ASSISTANT PROFESSOR BAKER

12a. VOICE AND READING. Development of the public voice and the conversational tone, with special drill for individual difficulties. Selections and impromptu speeches for practice in voice and platform deportment.

Open to Freshmen.

Three hours, first semester. W. F., 12 and a third hour to be arranged. ASSISTANT PROFESSOR BAKER

12b. PUBLIC SPEAKING.—Theory and practice in the composition and delivery of various forms of extemporaneous address. English 12a prerequisite.

Open to Freshmen.

Three hours, second semester. W. F., 12, and conference.

ASSISTANT PROFESSOR BAKER

13a. SHAKESPEARE. A general survey of Shakespeare's works, including the reading and class discussion of twenty plays.

Three hours, first semester. M. W. F., 10. PROFESSOR AMES

14a. ENGLISH COMPOSITION. A course in expository writing, required of all Sophomores not exempted by high standing in English 11. Bi-weekly original essays, shorter themes and prescribed readings.

Three hours, first semester. Tu. Th. S., 10 and 11.

ASSISTANT PROFESSOR BAKER

16b. ENGLISH COMPOSITION. Weekly themes in exposition and narrative. Class criticisms. Open to students who have attained high standing in English 11 or English 14a.

Three hours, second semester. M. W. F., 11.

ASSISTANT PROFESSOR BAKER

17a. ENGLISH. The Romantic Movement in English Literature. Prerequisite: English 11.

Three hours, first semester. Tu. Th. S., 9. PROFESSOR AMES

18b. THE BIBLE. This course aims to stimulate an intelligent appreciation of the Bible as literature. It consists of an interpretation chiefly of the Old Testament, its history and epic, poetry and oratory, philosophy and prophecy. Prerequisite: English 11.

Three hours, second semester. M. W. F., 10.

To be omitted in 1928-29. PROFESSOR AMES

19a. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY. Readings from Addison, Steele, Defoe, Swift, Pope, Fielding, Sterne, Johnson, Boswell, Chesterfield, Walpole, Goldsmith, Burke, Burns. Prerequisite: English 11.

Three hours, first semester. Tu. Th. S., 9.

Omitted in 1927-28.

PROFESSOR AMES

110b. NINETEENTH CENTURY POETRY. A study of English poetry from Tennyson to Kipling. Prerequisite: English 11.

Three hours, second semester. Tu. Th. S. 9.

To be omitted in 1928-29.

PROFESSOR AMES

111. AMERICAN LITERATURE. Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Prerequisite: English 11.

Three hours, through the year. Tu. Th. S., 12.

PROFESSOR AMES

112. THE MODERN ESSAY. A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite: English 11.

Three hours, through the year. Tu. Th. S., 9.

Omitted in 1927-28.

PROFESSOR AMES

113b. MODERN ENGLISH DRAMA. A study of contemporary English dramatists.

Open to Freshmen.

Three hours, second semester. Tu. Th. S., 10.

To be omitted in 1928-29.

PROFESSOR DODD

114b. ELIZABETHAN AND RESTORATION DRAMA. A study of the plays written by Shakespeare's distinguished contemporaries and his successors of the Restoration.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28, and to be omitted in 1928-29.

PROFESSOR DODD

121b. BIOGRAPHY AND LETTERS. A study of the biography, autobiography and correspondence of distinguished authors, together with painters and sculptors, from the eighteenth century

to the present day. This course is open only to upper classmen, who are proficient in English.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28.

PROFESSOR DODD

122a. MODERN POETRY. A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it, opportunity is afforded for original verse composition.

Open only to upperclassmen who are proficient in English.

Three hours, first semester. Tu. Th. S., 10.

PROFESSOR DODD

123b. THE 19TH CENTURY NOVEL.

Open to Freshmen with the approval of the instructor.

Three hours, second semester. M. W. F., 9.

Omitted in 1927-28.

ASSISTANT PROFESSOR BAKER

124b. AMERICAN DRAMA. A study of the American drama from colonial times to the present day.

Open to Freshmen.

Three hours, second semester. Tu. Th. S., 10.

Omitted in 1927-28, and to be omitted in 1928-29.

PROFESSOR DODD

125b. THE SHORT STORY. A study of representative short stories in English and American literature.

Open to Freshmen.

Three hours, second semester. M. W. F., 9.

To be omitted in 1928-29.

PROFESSOR DODD

126b. MODERN CONTINENTAL DRAMA. Contemporary drama: Norway, Russia, Germany, Austria, France, Spain and Italy. A companion course to Modern English Drama. English 113 is a prerequisite for this course.

Three hours, second semester. Tu. Th. S., 10.

PROFESSOR DODD

DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography, on pages 62 to 74.

DEPARTMENT OF GEOLOGY
PROFESSOR LITTLE

1. PRIMARILY FOR UNDERGRADUATES

12. GENERAL GEOLOGY. First semester. A study of the rocks which compose the earth's surface, the physical processes which act upon them, the internal forces which deform them, and the land forms resultant from these modifications. Many of the practical applications are indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth including the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field trip lasting two days or more may be required.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. M. W. F., 8; F., 2.

PROFESSOR LITTLE

121a. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS. A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meetings and one laboratory period weekly.

Three hours, first semester. W. F., 11, and F., 2.

Omitted in 1927-28.

PROFESSOR LITTLE

122b. ECONOMIC GEOLOGY. A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of non-metallic deposits such as coal, petroleum and phosphates; and deposits of metal such as iron, copper and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

Three hours, second semester.
Omitted in 1927-28.

PROFESSOR LITTLE

DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSISTANT PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to take German in partial satisfaction of the general requirements in foreign language (see page 47), and, through the alternation in successive years of the courses beyond the second year, which are open to men who have had either two or three years of German in college, provides opportunity also for those who wish to take this language as a major. A major in German consists of at least twenty-four semester hours selected from the courses announced here.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirement of a course of second year college grade in foreign language. A full year course of two half-courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of three years' credit in some one foreign language.

COURSES IN GERMAN

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY GERMAN. Drill in pronunciation and grammar; composition; reading of easy prose.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 8 and 11.

ASSISTANT PROFESSOR BOSSHARD

12. SECOND YEAR GERMAN. Review of grammar, with some oral or written translation from English into German; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9 and 12.

PROFESSOR RANDOLPH

13. ADVANCED READING AND COMPOSITION. The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The works read are varied from year to year, and the course may be taken in successive years. The third meeting in the week is devoted to German composition.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

PROFESSOR RANDOLPH

14. INTRODUCTION TO THE CLASSIC AUTHORS. Lessing, *Mina von Barnhelm*, *Emilia Galotti*; Schiller, *Wilhelm Tell*; Goethe, *Hermann und Dorothea*. Lectures, discussions and collateral reading dealing with the lives, writings and influence of the authors studied.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1927-28.

PROFESSOR RANDOLPH

17b. GRILLPARZER AND HEBBEL. German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1927-28.

PROFESSOR RANDOLPH

16b. SCIENTIFIC GERMAN. Lassar-Cohn, *Die Chemie im täglichen Leben*, and Greenfield's *Technical and Scientific German* are employed as texts. The course is designed especially for men majoring in science, but the subject matter includes much of interest to the casual student. Prerequisite, German 12 or its equivalent.

Open to Freshmen.

Three hours, second semester. Tu., 10; W. F., 12.

Omitted in 1927-28.

PROFESSOR RANDOLPH

18. ADVANCED READING AND CONVERSATION. The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the student with essential facts about Germany and the German people. About a third of each recitation hour is devoted to conversation in German. Open to students who have had at least three years of work in the language.

Three hours, through the year.

Omitted in 1927-1928.

19. THE GERMAN NOVEL. Lectures on the history and nature of the novel; the reading of a few modern novels in class; collateral reading and reports. In the beginning the lectures and reports are given in English, but in the second half year the course is conducted in German.

Three hours, through the year. M. F. W., 10.

ASSISTANT PROFESSOR BOSSHARD

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE,* PROFESSOR DENNIS,**

ASSOCIATE PROFESSOR HEDGES, ASSISTANT PROFESSOR LEE

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

*Absent on leave, first semester 1927-28.

**Absent on leave, second semester 1927-28.

Course 11, primarily for Freshmen, is open to members of all classes; courses 15, 16, 17 and 18 are open to Sophomores, Juniors and Seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa. Especial attention is also given to the history of the United States.

FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Antiquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequalled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. Those taking History as a *major* are advised to elect their *minor* either in Geography or in Economics.

A feature of the method of instruction in the department is

the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations.

Department of Geography

- 10a. FUNDAMENTALS OF GEOGRAPHY.
- 14a. ECONOMIC GEOGRAPHY (AGRICULTURAL).
- 15b. ECONOMIC GEOGRAPHY (INDUSTRIAL).
- 102b. GEOGRAPHY OF NORTH AMERICA.
- 104b. GEOGRAPHY OF EUROPE.
- 243a. ECONOMIC GEOGRAPHY OF SOUTH AMERICA.
- 27a. GENERAL PRINCIPLES OF ANTHROPOGEOGRAPHY.
- 274a. GEOGRAPHY OF NORTHWEST EUROPE.

Department of Economics and Sociology

- 14b. ECONOMIC HISTORY OF THE UNITED STATES.
- 17b. INTERNATIONAL TRADE AND INTERNATIONAL FINANCE.
- 31. INTERNATIONAL ECONOMIC POLICIES.

Department of Psychology

- 202. SOCIAL PSYCHOLOGY.

**COURSES IN HISTORY
AND INTERNATIONAL RELATIONS**

1. PRIMARILY FOR UNDERGRADUATES

11. INTRODUCTION TO THE HISTORY OF EUROPE. The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period. Indivisible course.

Open to Freshmen.

Three hours, through the year. Tu., Th. S., 11.

PROFESSOR LEE

15a. HISTORY OF ENGLAND FROM THE 15TH CENTURY TO THE PRESENT. A general course. Lectures, textbooks, collateral reading, and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

Three hours, through the year. M. W. F., 9.

PROFESSOR DENNIS

16. EUROPE SINCE 1815. A general survey of the history of continental Europe from the end of the Napoleonic period to the present time. Attention will be given to the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on the causes and course of the World War and on the present situation in Europe. History 11 or its equivalent is desirable as a prerequisite.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 12.

ASSISTANT PROFESSOR LEE

17. AMERICAN HISTORY SINCE 1783. After a brief survey of the colonial beginnings of American History and the American Revolution, the course will treat carefully the period since 1783. Emphasis will be placed upon the newer points of view in the study and writing of American History.

Divisible only in special cases with the approval of the Department.

Three hours, through the year. Tu. Th. S., 9.

ASSOCIATE PROFESSOR HEDGES

18b. A SURVEY OF INTERNATIONAL RELATIONS. The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, economic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

Three hours, through the year. M. W. F., 9.

Given in the second semester only, 1927-28.

PROFESSOR BLAKESLEE

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES.

21b. SELECTED TOPICS IN MODERN DIPLOMATIC HISTORY. Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

Two hours, second semester. M. W., 11. PROFESSOR DENNIS
Omitted in 1927-28.

22. THE PACIFIC AND THE FAR EAST. The course deals especially with Japan, China, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

Three hours, through the year. M. W. F., 10.
Given in the second semester only, 1927-28.

PROFESSOR BLAKESLEE

23a. CENTRAL EUROPE IN THE 19TH CENTURY. This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity is taken up in detail. The second semester is devoted to the treatment of German supremacy after 1870, to the economic development of the German Empire, and to the national movements as well as to the foreign policy of Austria-Hungary. Special attention is given to the present situation and problems of Central Europe.

Two hours, first semester. Tu., 3.

ASSISTANT PROFESSOR LEE

24. THE HISTORY OF FRANCE AND THE LATIN STATES OF EUROPE IN THE NINETEENTH CENTURY. The general history of France, Italy and Spain, since the end of the Napoleonic Wars. The course will include the constitutional movement in France and Spain, the story of the Italian Risorgimento, the rise of the second French colonial Empire and the Italian colonial system, the industrialization of France and Italy, and finally the general Mediterranean questions as they were affected by the World War and by the peace settlement. The course presupposes a general

knowledge of the history of the nineteenth century such as may be obtained from History 16.

Three hours, through the year. Tu. Th. S., 10.

Omitted in 1927-28.

ASSISTANT PROFESSOR LEE

25a. BRITISH INDIA. A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

Two hours, first semester. M. W., 4. PROFESSOR DENNIS

Omitted in 1927-28.

26a. NAPOLEON BONAPARTE. The career of Napoleon, with emphasis upon international relations, including colonial policy, and the influence of Napoleon on world politics.

Two hours, first semester. M. W., 4. PROFESSOR DENNIS

Omitted in 1927-28.

27. LATIN AMERICA. A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

Three hours, through the year. M. W. F., 10.

Omitted in 1927-28.

PROFESSOR BLAKESLEE

28a. THE RECENT HISTORY OF THE BRITISH EMPIRE. An analysis of the British Imperial Possessions, emphasizing the developments and problems of the last quarter of a century.

Two hours, first semester. M. W., 11. PROFESSOR DENNIS

29. RUSSIA AND THE NEAR EAST IN THE 19TH CENTURY. The aim of this course is not only to trace the development of Russia's policy in relation to the Near East Question, but to study the general problem of the decline of the Ottoman Empire

and the rise of the Balkan States, as well as the growth of the revolutionary movement in Russia. The course of events since 1914—the Revolution and the Bolshevik régime in Russia, and the recent National revival in Turkey, will be particularly emphasized.

Three hours, through the year. Tu. Th. S., 10.

Omitted in 1927-28.

ASSISTANT PROFESSOR LEE

211a. THE HISTORICAL GEOGRAPHY OF THE UNITED STATES. The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

Three hours, first semester. M. W. F., 11.

Omitted in 1927-28.

ASSOCIATE PROFESSOR HEDGES

213. CONSTITUTIONAL HISTORY OF THE UNITED STATES. In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a thorough college course in general American History.

Three hours, through the year. Tu. Th. S., 12.

Omitted in 1927-28.

ASSOCIATE PROFESSOR HEDGES

241a. THE UNITED STATES SINCE 1865. A synthesis of the political, social and economic forces in the development of the United States since the Civil War. The course will be developed by topics and emphasis will be placed upon interpretation rather than narration. A reasonable familiarity with the period will be assumed. Prerequisite: History 17 or its equivalent.

Three hours, Tu. Th. S., 10, first semester.

ASSOCIATE PROFESSOR HEDGES

242b. AMERICAN COLONIAL HISTORY TO 1776. A study of the European background of American history, the expansion of

European peoples into the New World, the various European Colonial systems, the struggle for Colonial supremacy in North America and the background and causes of the American Revolution. Prerequisite: History 17 or its equivalent.

Tu. Th. S., at 10.

ASSOCIATE PROFESSOR HEDGES

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL LAW. A general course adapted for graduate students who will do a large amount of independent reading. The principles of international law are presented and then illustrated by recent and pending international controversies of a legal nature. Lectures, text books, class discussions, and the study of the important cases in standard collections.

Two hours, through the year. M. W., 3.

Given in the second semester only, 1927-28.

PROFESSOR BLAKESLEE

32. RECENT INTERNATIONAL RELATIONS OF THE UNITED STATES. A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

Two hours, through the year. M. W., 3.

Omitted in 1927-28.

PROFESSOR BLAKESLEE

321. SELECTED TOPICS IN RECENT BRITISH HISTORY. A research course based upon a study of source material. The fields of investigation will change from year to year.

Two hours, first semester. M. W., 3.

PROFESSOR DENNIS

331. EUROPEAN INTERNATIONAL RELATIONS, 1870-1918. A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England,

the Entente Cordiale and the diplomatic aspect of the World War are all studied.

Two hours, through the year. Tu. Th., 4-6.

ASSOCIATE PROFESSOR LEE

332. HISTORICAL BIBLIOGRAPHY AND CRITICISM. A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the time of Herodotus to the present day.

*Two hours, through the year. ASSISTANT PROFESSOR LEE
Omitted in 1927-28.*

333. TOPICS IN THE RECENT AND CONTEMPORARY HISTORY OF CONTINENTAL EUROPE. The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

*Two hours, through the year. ASSISTANT PROFESSOR LEE
Omitted in 1927-28.*

342. THE INFLUENCE OF WESTWARD EXPANSION IN AMERICAN DEVELOPMENT. The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

Two hours, through the year. Tu., 4-6.

ASSOCIATE PROFESSOR HEDGES

351. RESEARCH IN THE INTERNATIONAL RELATIONS OF THE UNITED STATES. PROFESSOR BLAKESLEE

352. RESEARCH IN THE INTERNATIONAL RELATIONS OF THE
PACIFIC AND THE FAR EAST PROFESSOR BLAKESLEE

353. RESEARCH IN THE HISTORY AND INTERNATIONAL RELA-
TIONS OF THE BRITISH EMPIRE. PROFESSOR DENNIS

354. RESEARCH IN THE HISTORY AND INTERNATIONAL RELA-
TIONS OF CONTINENTAL EUROPE. ASSISTANT PROFESSOR LEE

355. RESEARCH IN THE POLITICAL AND ECONOMIC HISTORY
OF THE UNITED STATES. ASSOCIATE PROFESSOR HEDGES

36. SEMINAR. The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

In studying the problems arising out of the war the Seminar is fortunate in having at hand the excellent war collection of the University Library, one of the largest in the country, which already numbers between seven and eight thousand volumes.

Weekly, through the year. Tu., 7.

PROFESSORS BLAKESLEE, DENNIS, HEDGES AND LEE

DEPARTMENT OF MATHEMATICS

PROFESSOR WILLIAMS, ASSOCIATE PROFESSOR MELVILLE

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced work in Mathematics.

A *major* in Mathematics consists of twenty-four semester hours, including courses 12, 13 and 14; a *minor* consists of eighteen semester hours, including course 12.

Mathematics 10 or 11 is required in the freshmen year of all students who expect to elect a major in Division A.

MATERIAL FACILITIES

The Library is provided with the more important text-books,

treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics.

The Department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

COURSES IN MATHEMATICS

1. PRIMARILY FOR UNDERGRADUATES

1. ELEMENTARY COURSE. For students who enter with only two units of Mathematics. Review of essentials in Algebra and Geometry, with emphasis upon the understanding of relationships, during first semester, and topics in trigonometry, analytic geometry and elements of calculus, in the second semester. Prepares for course 11.

Three hours, through the year.

To be omitted in 1928-29

PROFESSOR WILLIAMS

10. INTERMEDIATE COURSE. For students who enter with two or more units of Mathematics and do not expect to major in Mathematics or Physics. Students who complete this course with a satisfactory record may enter course 11 at the beginning of the second semester of the following year.

Open to Freshmen.

Three hours, through the year. Two sections, M. W. F., 8 and 9.

ASSOCIATE PROFESSOR MELVILLE

11. INTRODUCTORY COURSE. For students with *major* or *minor* in Mathematics or Physics. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to Freshmen.

Three hours, through the year. M. W. F., 9.

PROFESSOR WILLIAMS

12. CALCULUS AND ANALYTIC GEOMETRY. Differential and integral calculus and Analytic Geometry, a continuation of course 11.

Three hours, through the year. M. W. F., 11.

ASSOCIATE PROFESSOR MELVILLE, first semester. PROFESSOR WILLIAMS, second semester.

13. CALCULUS AND ANALYTIC GEOMETRY, PLANE CURVES AND THREE DIMENSIONS. A continuation of course 12 with applications to solutions of problems.

Three hours, through the year. M. W. F., 10.

PROFESSOR WILLIAMS

14. DIFFERENTIAL EQUATIONS.

Three hours, through the year. Tu. Th. S., 11.

Omitted in 1927-28. PROFESSOR WILLIAMS

19a. ASTRONOMY. Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110a.

Open to Freshmen.

Three hours, first semester. Tu. Th. S., 9.

PROFESSOR WILLIAMS

110b. ELEMENTARY SURVEYING. Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19b.

Open to Freshmen who have had trigonometry.

Three hours, second semester.

Omitted in 1927-28.

PROFESSOR WILLIAMS

113a. MATHEMATICAL THEORY OF STATISTICS. Introductory course for graduate students in Geography, Biology, Economics and Psychology.

Three hours, first semester.

Omitted in 1927-28.

PROFESSOR WILLIAMS

DEPARTMENT OF PHYSICS

PROFESSOR GODDARD, ASSISTANT PROFESSOR ROOPE.

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is

deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts, and without which no one may hope to be considered liberally educated. The Department aims also to fit students in the minimum of time with professional preparations for Chemistry, Meteorology and allied sciences, Medicine, Engineering, and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

For students majoring in Physics, the following sequence of courses is recommended:

Course	Year	Prerequisites Physics	Prerequisites Mathematics
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

Sequences for students not *majoring* in Physics are as follows:

Physics as a minor: Courses 11, 14, and one or more of 15, 17, 22, 23, 28 or 29.

Pre-medical course: Course 11

Major in Chemistry: Courses 11, 14, and 15, 23, or 28.

Major in Biology: Courses 11, 14, and 28.

Major in Meteorology and Climatology: Courses 11, 14 and 15.

GRADUATE WORK

The Department is prepared to give work leading to the degree of Master of Arts in Physics, for those planning to teach Physics, to undertake research work in industrial and government laboratories, and also as a preparation for those planning to take more advanced degrees. For this work, emphasis is placed not only upon Mathematical Physics, but also upon the undertaking of an original research problem, for which work the laboratories and library provide unusual facilities.

In case the *minor* for graduate students is in Mathematics,

courses may be arranged with the Mathematics Department, or a special course on applied Mathematics may be taken under the Physics Department, based on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

COURSES IN PHYSICS

1. PRIMARILY FOR UNDERGRADUATES

11. GENERAL PHYSICS. This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio, Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law, or Medicine, and is the natural starting point for those desiring to do further work in Physics. It may also be taken as a general science course by those not *majoring* in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The text-book is Duff's *General Physics*. Mathematics 11 is advised, but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirement of eight semester hours in Physics.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 10; W. or Th., 2.

PROFESSOR GODDARD

13. HISTORY OF PHYSICS. A conference course on the history of the various branches of Physics. Prerequisite: Physics 11.

Three hours, through the year. M. W. F., 9.

PROFESSOR GODDARD

14. MECHANICAL AND ELECTRICAL MEASUREMENTS. During the first semester this course consists of laboratory exercises in dynamics, including kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat. In the second semester, the course

consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. Prerequisite: Physics 11.

Three hours, through the year. Tu. W. F., 2.

ASSISTANT PROFESSOR ROOPE

15. THERMODYNAMICS AND OPTICS. The work of the first semester is in thermodynamics, including the thermal properties of the solid, liquid, and gaseous states, and the theory of heat engines. The second semester covers geometrical and physical optics, and includes work in practical photography. The respective text-books are *Heat for Advanced Students*, Edser, and *A Treatise on Light*, Houstoun. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 9.

ASSISTANT PROFESSOR ROOPE

17. ADVANCED GENERAL PHYSICS. Lectures and recitations. This course is intended for those desiring a more advanced presentation of mechanics, electricity, heat, and light than is afforded by Physics 11, but not desiring year courses in these special subjects. Although the treatments are less complete than in courses 22, 23, and 15, a good perspective of the subject of Physics may nevertheless be gained. Mathematics 12 must be taken before or with this course. Prerequisite, Physics 11.

Three hours, through the year. M. W. F., 11.

PROFESSOR GODDARD

Omitted in 1927-28, and to be omitted in 1928-29.

19. LABORATORY METEOROLOGY. Daily observing, interpreting and forecasting local weather. Indoor and outdoor meteorological experiments, including testing meteorological instruments, and special observations of temperature, condensation, optical phenomena and winds. Hydrogen balloons will be used. Prerequisites: six hours of college Physics, three hours of college Mathematics, some Chemistry, and Geography 14 or its equivalent.

Three hours, through the year. M. W. F., 11.

PROFESSOR GODDARD AND ASSOCIATE PROFESSOR BROOKS

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

22. THEORETICAL MECHANICS. This course is a systematic

presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Seely and Ensign, *Analytical Mechanics for Engineers*. Mathematics 12 must be taken before or with this course.

Three hours, through the year. M. W. F., 8.

To be omitted in 1928-29.

PROFESSOR GODDARD

23. THEORY OF ELECTRICITY AND MAGNETISM. This course treats the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of particular importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11 and Mathematics 11; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is advised. The text-book is Starling's *Electricity and Magnetism*.

Three hours, through the year. M. W. F., 8.

Omitted in 1927-28.

PROFESSOR GODDARD

28. LABORATORY METHODS. A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, vector analysis, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

One hour, through the year. Th., 11.

Omitted in 1927-28.

ASSISTANT PROFESSOR ROOPE

29b. PHYSICS OF THE AIR. A course in theoretical meteorology based on Humphrey's *Physics of the Air*. Prerequisites: six hours of college Physics, six hours of college Mathematics, some Chemistry, and Geography 14 or its equivalent.

Three hours, through the year.

PROFESSOR GODDARD AND PROFESSOR BROOKS
Omitted in 1927-28.

3. PRIMARILY FOR GRADUATE STUDENTS

34. ADVANCED MECHANICS. This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions, together with a discussion of applications to various branches of Physics. The motion of rigid bodies, the theory of moving axes, and the theory and application of the gyroscope are also treated.

Three hours, through the year. Tu. Th. F., 5.

PROFESSOR GODDARD

35. ADVANCED ELECTRICITY AND MAGNETISM. The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

Three hours, through the year. M. Tu. F., 3.

PROFESSOR GODDARD

36. THE PARTIAL DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS. Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

Two hours, through the year. PROFESSOR GODDARD

37. RESEARCH WORK IN PHYSICS. Research work on an original problem in Physics. Required of candidates for the Master's degree. PROFESSOR GODDARD

39. RESEARCH IN METEOROLOGY.

PROFESSOR GODDARD AND PROFESSOR BROOKS

310. SEMINAR AND RESEARCH CONFERENCE. A seminar on modern theories of Physics, together with conferences on current literature and on the researches in progress.

Once a week, through the year. Tu., 4-6.

THE STAFF OF THE DEPARTMENT

DEPARTMENT OF PSYCHOLOGY*

PROFESSOR MURCHISON, PROFESSOR HUNTER, ASSOCIATE PROFESSOR

NAFE, ASSOCIATE PROFESSOR JONES

LABORATORY FACILITIES

The Psychological Laboratories occupy thirty-two rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. The workshop contains an excellent equipment for the manufacture and repair of apparatus.

LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world, more than sixty in number, come regularly to the library.

FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

UNDERGRADUATE WORK

The department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

GRADUATE WORK

ADMISSION. Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary Psychology.

COURSES. Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with advice of the instructors concerned and with the approval of the Department. The courses in the department are planned so as to give each student working for an advanced degree such necessary training as courses can give.

THE MASTER'S DEGREE. The general university requirements for the master's degree are explained elsewhere in the catalogue. The department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

THE DOCTOR'S DEGREE. Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during his final year in residence. A student will be unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

THESES. In addition to the general university requirements concerning the preparation and delivery of theses, the department has a supplementary requirement of an additional copy of each thesis, to remain on file in the department.

COURSES IN PSYCHOLOGY

1. PRIMARILY FOR UNDERGRADUATES

11a. GENERAL ELEMENTARY PSYCHOLOGY. This course is an introductory course in elementary psychology, and is prerequisite for all the following courses in the department. Textbook, lectures and collateral reading.

Three hours, first semester. M. W. F., 9.

Omitted 1927-28.

ASSOCIATE PROFESSOR NAFE

Open to Freshmen.

12. EXPERIMENTAL PSYCHOLOGY. This is more than an elementary course. Psychology 11a being prerequisite. The entire resources of the laboratory are available for this course. The students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 21a, 22b, 23a and 24b and to all graduate work for advanced degrees.

Three hours, through the year. M. W. F., 2.

ASSOCIATE PROFESSOR NAFE

Open to Freshmen.

14a. ELEMENTARY EDUCATIONAL PSYCHOLOGY. A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

In addition to the scheduled meetings, a third weekly meeting is to be arranged.

Three hours, second semester. Tu. Th., 12.

ASSOCIATE PROFESSOR JONES

15b. INDIVIDUAL DIFFERENCES AND EXCEPTIONAL CHILDREN.

A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright and exceptionally dull children, and various methods past and present employed by schools in teaching such children will be examined.

In addition to the two scheduled meetings, a third weekly meeting is to be arranged.

Three hours, second semester. Tu. Th., 12.

ASSOCIATE PROFESSOR JONES

16a. PRINCIPLES OF EDUCATION. School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation, and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and economic conditions of the United States; American education and world citizenship.

Three hours, first semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

17b. PHILOSOPHICAL AND HISTORICAL FOUNDATIONS OF MODERN EDUCATION. By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

Three hours, second semester. M. W. F., 10.

ASSOCIATE PROFESSOR JONES

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

200a. SYSTEMATIC PSYCHOLOGY. This course together with 201b, 203a, 204b offers a two-year course in which the semester units are separable. It is a systematic study of the work that has been done in Experimental Psychology. 200a deals with vision and audition.

Three hours, first semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

Given in 1927-28 and alternate years.

201b. SYSTEMATIC PSYCHOLOGY. Smell, taste, touch, and the image.

Three hours, second semester. M. W. F., 9.

ASSOCIATE PROFESSOR NAFE

To be given in 1928-29 and alternate years.

202. SOCIAL PSYCHOLOGY. A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

Two hours, through the year. Th., 4-6.

PROFESSOR MURCHISON

203a. SYSTEMATIC PSYCHOLOGY. Affection, emotion, attention, perception, and idea in their systematic aspects.

Three hours, first semester. M. W. F., 9.

Alternate years.

ASSOCIATE PROFESSOR NAFE

204b. SYSTEMATIC PSYCHOLOGY. The position of association, memory, imagination, thought, action and volition in systems of psychology, especially in the structural system. The treatment of these subjects is historical as well as systematic. Little attention is given to the application of principles.

Three hours, second semester. M. W. F., 9.

Alternate years.

ASSOCIATE PROFESSOR NAFE

206a. ANIMAL BEHAVIOR. A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

Three hours, first semester. M. W. F., 11.

PROFESSOR HUNTER

207b. (Listed as 205b in the Feb., 1927 Catalog.) THE LEARNING PROCESS. A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

Three hours, second semester. M. W. F., 11.

PROFESSOR HUNTER

3. PRIMARILY FOR GRADUATE STUDENTS

301a. SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

Two hours, first semester. Tu., 11.

PROFESSOR HUNTER

302b. SEMINAR IN THE PRINCIPLES OF PSYCHOLOGY. A continuation of the first semester Seminar, but not necessarily pre-

ceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

Two hours, second semester. Tu., 11. PROFESSOR HUNTER

304. JOURNAL CLUB. To be devoted to the study of selected topics in current Psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4.

PROFESSORS MURCHISON, HUNTER, NAFE AND JONES

305. RESEARCH. All students *majoring* in the Department of Psychology for advanced degrees will be expected to undertake a suitable research problem under the direction of Professors Murchison, Hunter, Nafe, or Jones.

310. CHILD BEHAVIOR. This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

Two hours, through the year. F., 4. PROFESSOR MURCHISON

312. ADVANCED EXPERIMENTAL PSYCHOLOGY. Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique.

ASSOCIATE PROFESSOR NAFE

313a. ADVANCED EDUCATIONAL PSYCHOLOGY: TECHNIQUES OF QUANTITATIVE EXPERIMENTATION IN EDUCATION. The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial r ; partial and multiple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments.

Two hours, first semester. Tu., 4.

ASSOCIATE PROFESSOR JONES

314b. METHODS IN EDUCATIONAL MEASUREMENT. General trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis, and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principals and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

Two hours, second semester. Tu., 4.

ASSOCIATE PROFESSOR JONES

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR ATWOOD

See the statement of the general requirement in foreign language, page 47, for all candidates for the A.B. degree.

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading ability, with at least a beginning of writing and speaking; when possible a student should take the full twelve hours of this sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may of course be taken. Those who wish to continue the study of literature after taking 14, will take the "General View," Course 114, which may be followed by the courses in which the literature of the 17th, 18th, 19th and 20th centuries is studied intensively (courses 15, 19, 16, 119); maturer students with the proper background may take 114 without having had 14, or may

go directly from 14 to the Advanced Courses. Those interested primarily in the study of the language will take 13 and then 17.

A *major* in Romance Languages consists of at least twenty-four semester hours selected from the courses described below; but not more than twelve semester hours in elementary courses (French 11, Italian 11, and Spanish 11), may be counted in a *major*.

A typical *major* for a student who has had three years of French in the high school would include courses 13, 14, 114 and one of the intensive courses in literature (15, 19, 16, 119) or the Advanced Composition course (17). Those who have had less French would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 114. The attention of students intending to *major* in Romance Languages is called to the statement concerning the required courses in Greek or Latin, on page 47.

COURSES IN FRENCH

1. PRIMARILY FOR UNDERGRADUATES

11. FOR BEGINNERS. Grammar, pronunciation, oral work, and composition, based on the Churchman-Hacker *First Phonetic French Course* and Cerf and Giese's *Beginning French*. For a proper orientation in aural-oral work, the phonetic approach is used, and oral exercises are utilized throughout as a basis for speaking ability and for the general language drill. But the main purpose of the course is to develop reading ability. The three-phase method is used throughout, exercises being treated first as reading material, secondly as material to be understood by the ear, and thirdly as material for constructive work in speaking and writing.

Divisible only in special cases and with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 10.

PROFESSOR CHURCHMAN

12. INTERMEDIATE. Reading of modern French, with grammar, composition, pronunciation, and oral exercises. Course 12 is a continuation of course 11, and is also open to students who

have had two years of high school French. Grammar review and composition from Carnahan's *French Review Grammar*. Reading from such works as Halévy's *un Mariage d'amour*, Hugo's *les Misérables*, Labiche and Martin's *le Voyage de M. Perrichon*, France's *le Crime de Sylvestre Bonnard*.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 8.

ASSISTANT PROFESSOR ATWOOD

13. ADVANCED FRENCH. This course is designed to continue and supplement the language work of course 12; it is also open to students who have had three years of high school French. Since the parallel course (14) offers ample opportunity for the development of reading ability, the emphasis in this course is placed upon the spoken and written language. The major part of the early work is devoted to a careful study of pronunciation and to a very rapid review of the elements of grammar in application to oral exercises. Immediately thereafter comes a survey of grammar and syntax in Fraser and Squair's *French Grammar*, with composition from Comfort's *Practical French Composition*. Oral work in everyday French is continued through the year, with Kueny's *Pour Apprendre à Parler* as the basic text.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

ASSISTANT PROFESSOR ATWOOD

14. (Up to and including 1927-28.) GENERAL VIEW OF FRENCH LITERATURE. This course offers a general introduction to French literature with the triple purpose of meeting the needs of those who wish to gain some knowledge of that literature without doing the intensive linguistic work of French 13, of supplementing the work of French 13 by wider reading in good literature, and of laying the foundation for the specialized courses in the literature of particular centuries. For students entering with the minimum preparation the only text to be read is the Vreeland and Michaud *Anthology of French Prose and Poetry* (Ginn); but all who enter with more than this minimum are expected to read collaterally along lines to which their tastes may lead them. Brief outline of the facts of French literature and discussion of

literary values based upon Strachey's *Landmarks in French Literature* (Holt). This course is open to students who have passed French 12 or who have had three years of French in the high school.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

PROFESSOR CHURCHMAN

NOTE. *French 14 as defined above will be permanently discontinued after 1927-28 and its place taken by course 14, described below, which may be followed by the new course, 114.*

14. (Beginning with 1928-29.) READINGS IN FRENCH LITERATURE. This course is a modification of the course previously known as "French 14," the changes being designed to bring the initiation into French literature more clearly within the scope of students still without much literary background and in need of further training in accurate reading. It is normally open to students who have had three years of French in the high school or French 12 in college, and is the natural course with which to begin the study of literature; mature students, however, who have some literary background and have done exceptional work in French 12 or 13, may take 114 without having had 14. The work of this course consists of the careful translation of selected masterpieces (entire), beginning with some recent author like Anatole France and working backward to the Classical authors of the 17th century. The object of the work will be to increase the student's capacity for intelligent reading of difficult French, to give him a first-hand acquaintance with certain literary masterpieces, and to lay a foundation for literary appreciation and criticism, with a clear grasp of a few of the essential facts of literary history. Parts of G. L. Strachey's *Landmarks in French Literature* will be studied, and a brief outline of all of French literature will be considered.

Open to Freshmen.

Tu. Th. Sat. 12.

ASSISTANT PROFESSOR ATWOOD

Three hours, through the year.

114. GENERAL VIEW OF FRENCH LITERATURE. This course is a modification of the course previously known as "French 14," its range and difficulty having been greatly increased by the change. It would ordinarily be preceded by the revised French

14, but it is open also to students with good literary background who have been in the upper quarter of French 12, or the upper half of French 13, or who have had at least four years of French in the high school. Its aim is to give a unified account of the development of French literature from the beginning to the present time. The early texts will be read in translation or in modernized French versions. Of the material since 1600, some will be carefully translated, and some read for the meaning only. The central text is Vreeland and Michaud's *Anthology of French Prose and Poetry*, which will be supplemented by the reading of several masterpieces entire and by selections from *Harper's French Anthology* (Sirich and Barton). The manual of literature to be used is *French Literature in Outline* by Churchman and Young; material from G. L. Strachey's *Landmarks in French Literature* and the *Histoire illustrée de la littérature française* by Abry, Audic and Crouzet will also be considered.

M. W. F., 12.

PROFESSOR CHURCHMAN

Omitted in 1928-29; to be given in 1929-30 and in alternate years thereafter.

NOTE. *For admission to French 15, 16, 19, and 119, it is ordinarily expected that a student will have passed French 114, but students who have stood in the upper half of 14 may take the advanced courses in the years when 114 is not offered.*

15. LITERATURE OF THE SEVENTEENTH CENTURY. A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in *An Anthology of Seventeenth Century French Literature* (Princeton University Press). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's *Histoire illustrée de la littérature française* and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classical literature, with a connected and critical knowledge of the literary history of the period. Few lectures, no translating, the time in the class-room being devoted to discussion and reading in the original. For conditions of admission, see note above.

Three hours, through the year. M., 4; W. F., 12.
To be omitted in 1928-29.

ASSISTANT PROFESSOR ATWOOD

16. LITERATURE OF THE NINETEENTH CENTURY. Historical and critical survey, with wide reading from the most significant authors of the century. The spirit, method, and plan of the work are similar to those of course 15. After a discussion of the later eighteenth century and of the work of Chateaubriand and Madame de Staël, comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of the facts and comment contained in the Abry, Audic and Crouzet *Histoire illustrée de la littérature française* and in the writings of other critics. Minor writers as found in the Vreeland-Michaud *Anthology*. Few if any lectures, and no translation. For conditions of admission to this course see note above.

Three hours, through the year. M., 4; W. F., 12.

PROFESSOR CHURCHMAN

Omitted in 1927-28 and to be omitted in 1928-29.

17. ADVANCED COMPOSITION AND ORAL WORK. Designed to provide teachers and other advanced students with a ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis. Systematic study of grammar and syntax through a hasty survey of R. T. Holbrook's *Living French*, a thorough mastery of E. C. Armstrong's *Syntax of the French Verb*, and special study of selected topics by means of references to several standard authorities. Further familiarity with the spoken language is encouraged by use of the phonograph outside of class, and some special attention is given to the building of a vocabulary of common words and phrases and to systematic observation of French usage. Occasional themes in French. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

Three hours, through the year. PROFESSOR CHURCHMAN
Omitted in 1927-28; to be offered in 1928-29.

18b. AIMS AND METHODS OF TEACHING FRENCH, with incidental reference to German and Spanish. Lectures, collateral

reading and reports on special topics. Discussions led by students in turn. This course is open to students who have passed with credit French 12, German 12, or Spanish 12, or who have done the equivalent of one of these courses. A knowledge of more than one language is desirable, but not necessary. Given in the later afternoon for the convenience of Worcester teachers.

One hour, second semester. M., 5. PROFESSOR CHURCHMAN
Omitted in 1927-28.

19. LITERATURE OF THE EIGHTEENTH CENTURY. Historical and critical survey, with wide reading from the most significant authors of the century. Essential texts are Schinz' *Eighteenth Century French Readings* and Brenner-Goodyear's *Eighteenth Century French Plays*. Especial stress will be placed upon the social background and the importance of the century in the development of modern ideas. Constant use will be made of such manuals as Abry, Audic and Crouzet's *Histoire illustrée de la littérature française*. The spirit, method, and plan of the work are similar to those of course 15. Few if any lectures, and no translation. For conditions of admission see note above.

Three hours, through the year. M., 4; W. F., 12.
Omitted in 1927-28 and to be omitted in 1928-29.

ASSISTANT PROFESSOR ATWOOD

119. CONTEMPORARY FRENCH LITERATURE. A study of fiction, poetry and drama since about 1890, beginning with Anatole France, Bourget, and Rostand, and taking up representative works by modern authors since. *Representative Contemporary French Lyrics* (Delpit). Cunliffe and De Bacourt, *French Literature During the Last Half Century*, with reference to Lalou, Bédier-Hazard, etc. Reading and discussions; few if any lectures.

New course to be offered in 1931-32.

Three hours, through the year.

M., 4; W. F., 12.

PROFESSOR CHURCHMAN

COURSES IN SPANISH

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY COURSE. Cherubini, *Curso Práctico de Español para principiantes*. Translation of simple prose. The first purpose of the course is to develop the ability to read, but a liberal

use is made of oral and written exercises. Emphasis is divided between South America and Spain.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year. M. W. F., 10.

ASSISTANT PROFESSOR ATWOOD

12. INTERMEDIATE COURSE. Combination of readings from Spanish literature with more advanced study of the language, oral and written. Review of the language in Crawford's *First Book in Spanish*. Reading of representative masterpieces, *e.g.*, *Don Quixote* (selections), one modern novel, one play, short stories. Open to students who have passed course 11, or who have had two years of Spanish in the high school.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9.

PROFESSOR CHURCHMAN

13. THIRD YEAR SPANISH. To be given when justified by the demand. Readings from Spanish literature and further work in composition and speaking. Open to students who have passed course 12, or who have had three years of Spanish in the high school.

Open to Freshmen.

Three hours, through the year.

Omitted in 1927-28.

COURSES IN ITALIAN

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY COURSE. The chief purpose of this course is to develop as rapidly as possible the ability to read Italian easily and accurately. As soon as a hasty survey of the elements of the language has provided the student with the necessary materials, reading is begun, and thereafter oral exercises, composition, and grammar are used chiefly as a means to greater facility in reading. Wilkins' *First Italian Book*; Grandgent's *Italian Grammar* (revised edition); Farina's *Fra le corde d'un contrabasso*; Fogazzaro's *Pereat Rochus*; *Italian Short Stories* (Wilkins and Altrocchi); Manzoni's *I promessi sposi*; possibly a play of Goldoni's. In

the second semester either the *Inferno* or the *Purgatorio* of Dante is read.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

Three hours, through the year.

PROFESSOR CHURCHMAN

Omitted in 1927-28.

Degrees Conferred

In the Calendar Year 1927

BACHELOR OF ARTS

Stephen Beaton, Jr.	Carlton Hardy Larrabee
Morris Irving Breseev	(With Highest Honor)
Roland Benedict Civalier	James Guilford Little
Milton Wallace Corbin	John Robert Moore
Francis Lawrence DeGangi	Emmett Thaddeus Morrill
Roger Francis Dickinson	Gordon Disbrow Porter
Richard Burt Dow (With Honor)	Martin Schaefer
George Burton Dyer	Harry Bernard Sheftel
Henry Francis Eagan	Fred Waldo Shipman
John Edward Fitzgerald (With Honor)	Samuel Silverman
Randolph Walfred Archibald Forsberg	Ralph Leslie Small
Robert Bruce Goeller	David Eli Swartz
Clarence Henry Graham	Osborne Bailey Tabor
Hyman Howard Green (With Honor)	Thomas Joseph Tierney
Clarence Wakefield Keller	George Meier David Wolfe (With High Honor)
	Richard Ellsmore Young
	Harry Zarrow (With High Honor)

BACHELOR OF EDUCATION

Mildred Elizabeth Christenson	Theresa Frances McQueeny
Marion Belle Forsythe	Delia Gertrude O'Connor
Maude Allison Hobson	Arthur Marthmore Shrager
Margaret Elizabeth Maher	Anne Elizabeth Tausch

MASTER OF ARTS

Wallace Richards Atwood	Dorothea Elizabeth Johannsen
Lois Alberta Bannister	Clarence Eugene Koeppe
Carleton Payne Barnes	Ruth Esther Laidlaw
Clyde Freeman Benner	Wallace Emerson Lamb
Carl John Bergman	Bert James Loewenberg
Hervey Francis Bowden	George Henry Merriam
Thomas Augustine Breen	Eileen Mae Miller
Gustaf Harry Carlson	Margaret Marion Mitchell
George Alexander Dawson	Mildred May Paige
Iver Waldemar Fallstrom	Alice Hannah Peterson
Marion Belle Forsythe	Mabel Ripley

Charles Gooze
 Edna Mae Gueffroy
 Isabelle Kingsbury Hart
 Herschel Heath
 Edith Louise Horne
 Palmer Peckham Howard
 Thomas Francis Hunt

Joseph Raymond Schwendeman
 Jeremiah Patrick Shalloo
 Catherine Elizabeth Sullivan
 Eleanor Tupper
 John Henry Weber
 Bester Cicero Weed

DOCTOR OF PHILOSOPHY

Mary Kibbe Allen
 Frank Guy Armitage
 Nels August Bengtson
 Clyde Edwards Cooper
 Albert Farnsworth
 Ralph Wesley Gilbert

rv Charles Orville Heath
Ec Te Ming Ku
lv John Riley Liggett
lv Curtis Hugh Morrow
lv Robert Wallace Nafe
lv Percy Martin Roope

SUMMARY

Bachelor of Arts
 Bachelor of Education

31	Master of Arts	35
8	Doctor of Philosophy	12

CLARK UNIVERSITY

Annual Commencement

JUNE 11 1928
HALF PAST TEN

Order of Exercises

March: Fest March

Christian Bach

Overture: Bohemian Girl

Balfe

The Joseph Truda Orchestra

Invocation

Maxwell Savage DD

Pastor of First Unitarian Church

Commencement Address

George H Locke University of Toronto AB LLD

Librarian of the Public Library

Presentation of Sanford Memorial Scholarship from
the Alumni

Harold D Woodbury

A Gift to the University: Portrait of Professor William
Libbey

Dr W Elmer Ekblaw

Statement by the President

Cornet Solo: My Heart and Thy Voice

Saint-Saens

Charles Bowler

Conferring of Degrees

Benediction

March: Lake Sonian

Lake

The audience is requested to remain seated
until the academic procession has passed out

Revised by vote of Coll. Bd. Sept 25, 1928.

Candidates for the Degree of Bachelor of Arts

William Olof Bloom, Jr.
Wells Elmer Carver
George Bryant Chase*
Michael Antonio Ciano
Everett William Coty
Joseph Edward Cove
William Albert Dexter
Franklin Carl Erickson
Wilfred Raphael Farrell
George Lee Goss
Thomas Joseph Hickey, Jr.*
Robert Edward Johnson*
Lloyd Charlton Jones
Irving Kraemer

Eino Fred Laakso
John Bartle MacGeoch
Moses Master
Frederick Thomas Mills
Ernest Gustaf Peterson
George Bradford Richt
Theodore Rothman
Quintin Marcellus Sanger
Abraham Smith
John Joseph Sullivan
Stanley Joseph Tatham
Russell Tomajan
Stanley Hartshorn Whiting

*Work completed in February 1928.

†Additional work to be completed

WITH HONOR

Raymond C Becker
Frederick O Lehnert

John M Spadola
Frank W Wilder

Annual Collegiate Honors

SENIORS

FIRST HONORS

Frederick O Lehnert

SECOND HONORS

Eino F Laako
John M Spadola

JUNIORS

FIRST HONORS

Raymond B Shanahan
Albert S Carlson

SECOND HONORS

Richard W Butler
Abraham Levett
Fred P Luvisi

with High Honor
Abraham Smit
* F. P. Howard

* Deg. at end of Summer School.

Annual Collegiate Honors

Continued

SOPHOMORES

FIRST HONORS

Michael Abelsky

Arman Brissette

Robert I Dickey

Albert C Erickson

Frederick M. Murdock

SECOND HONORS

John H Scott

Samuel Levenson

William E Marchant

Johnathan F Moore

FRESHMEN

FIRST HONORS

Wilfred R Arick

Edwin N Johnson

SECOND HONORS

Reino Korpi

Louis E Shapiro

FIFTH ANNUAL AWARD OF THE PRENTISS HOYT PRIZE IN POETRY

to Kingslands A Coffyn '29 for the poem "Values" and to Edwin N Johnson '32 for the poem "The Ultra-Modern Girl"

Candidates for the Degree of Master of Arts

Chemistry

Henry Francis Eagan

Osborne Bailey Tabor

Economics and Sociology

Harold Hewitt Crawford

George William Lloyd

Geography

Floyd Franklin Cunningham

Anna Hanratta

Huang Yü Jung

Harriet Elizabeth Lee

Robert William Rucker

George Wilhelm Schlesselman

Physics

Richard Burt Dow

History and International Relations

Gertrude Margaret Carey

Charles Grove Haines

Ralph Willard Hidy

Frances Helen Hogan

Kenneth Booth Holmes

Muriel Emmie Wagenhauser

Psychology

Edna Augusta Collamore

Mason Nelson Crook

Wayne Dennis

Clarence Henry Graham

Robert Ward Leeper

Norman Leslie Munn

Robert Stone

Candidates for the Degree of Doctor of Philosophy

Geography

Rollin Salisbury Atwood

Julia Mary Shipman

Willem VanRoyen

History and International Relations

Leo Julius Meyer

Physics

Rupen Eksergian

Psychology

Frank Arthur Geldard

Register

Names of students are grouped in three lists, I, those who registered in either semester of 1927-28, II, who attended the 1927 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 28, 29, 30 and 31 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—economics and sociology; G—geography; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (*) indicates that the student has withdrawn from the University prior to March 1, 1928.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abelsky, Michael	30		
Adams, Hobart Walker	29	Columbus, O.	46½ Providence
Addicott, Harold Brown	G S	Athens, O. Springfield	973 Main Y. M. C. A.
*Alderman, H. Elwood	31		
Allen, Winfield Gordon	30		92 Hillcroft Ave.
Anabrose, Michael John	31		33 Pond
Amsden, Festus Gilbert	30	Athol	7 Hancock
Anderson, Alton Rudolph	31		4 Halmstad
Anderson, Sven Axel	s, Ec S	Orange	46 Wachusett
Arbo, William Charles	30		
Argoff, Irving	31		25 Providence
Arick, Wilfred Rutman	31		4 No. Woodford
Ashus, Alfred	s		32 Marcy
Atwood, Robert Bruce	29	Winnetka, Ill.	35 Maywood
Atwood, Rollin Salisbury	G F		160 Woodland
Atwood, Wallace Richards	G F		160 Woodland
Backlin, Everett Elven	29		9 Euclid Ave.
Bailey, Irving Emerson	29		195 Park Ave.
Bangs, Nesbitt Hoyt	s	Cambridge	941 Main
Barber, William Perry	30	Putnam, Conn.	35 Maywood
Barnes, Carleton Payne	G F	Plainville, Conn.	
Baxter, John Francis	s, Ec S		44 Sagamore Rd.
Becker, Raymond Carl	28		560 Chandler
*Bedell, Roger Dudley	30	E. Greenbush, N. Y.	
Beeber, Maxwell Samuel	31		14 Dover
Belakonis, John	31		148 Millbury
Belanger, Leonard Joseph	29	Brooklyn, N. Y.	973 Main
Belkin, Solomon	31		36 Granite
Bell, Ruth Estella	Ec S	Topeka, Kan.	875 Main
Berard, Theodore Henry	31		414 Park Ave.
Berkovich, Louis	31	Haverhill	Estabrook Hall
*Bigelow, Roger Perry	29		119 Forest
Biller, Samuel	31	Malden	16 No. Woodford
Bissell, Malcolm Havens	G HF	Furniss, Pa.	4 Clement
Bland, Isadore Chester	29	Hartford, Conn.	16 Tirrell
Bloom, Sol Stuart	31		31 Fox
Bloom, William Olof, Jr.	28	Boylston	
Blumenfeld, Frank Botnick	30	Springfield	
Borwick, Moses	30	Brockton	47 Florence
Bousios, N. Basil	s	Miraly, Macedonia	Estabrook Hall
Boyle, Thomas Edward	30		57 Sagamore Rd.
Brady, Edward William	30	Leominster	
Briggs, Reginald Arthur	29		7 Dewey
Brightman, Milton	31	Brookline	20 Gates
Brinck, Donald Monty	29	West Boylston	
Brissette, Armand J., Jr.	30	Webster	
Britton, Jacob	29	Leominster	Faculty House
Brodsky, Lewis Irving	s	Fitchburg	45 Waverly
Brown, Anthony Francis	29	Shrewsbury	
Brown, Arnold	s		49 Midland
Brown, Horace Alvin	31	Norway, Maine	Estabrook Hall
Brown, Morris Yale	31	Meriden, Conn.	Estabrook Hall
Burgy, J. Herbert	G F	Monticello, Wisc.	941 Main
Burke, James Francis	31		319 Cambridge
Burnett, Edward Leonard	s	No. Brookfield	Estabrook Hall
Burroughs, Arthur Travers	29	Hudson, N. H.	9½ Hancock
Butler, Richard Wyman	29		21 Preston

1 Clapp, John Norman
2 Fisher, Julius

Hg Lancaster
31

28 Columbia St

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NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Campbell, Elizabeth Salmon			35 May
Carey, Gertrude M.	H S	Marlboro	137 A Eastern Ave.
Carlson, Albert Sigfrid	29		35 Maywood
Carver, Wells Elmer	28	Ludlow	Estabrook Hall
Catlin, Winton Irving	31	New Britain, Conn.	
*Chase, George Bryant	28	Stratford, Conn.	
Chase, Lester Jack	31		801 Pleasant
Chase, Matthew Irving	30	Farnumsville	
Cheka, Joseph Sandor	30	Darien, Conn.	16 Shirley
*Christenson, Mildred Elizabeth	s		148 Vernon
Christenson, Thomas Edison	30		10 Lancaster
Chung, Samuel Samtong	31	Honolulu, Hawaii	Estabrook Hall
Ciano, Michael Antonio	28	Waterbury, Conn.	308 Main
Cavalier, Roland Benedict	H S	Auburn	78 Florence
Clark, Marshall Gorham	30	Bridgton, Maine	
*Cleaveland, Stuart Morris	30	Skaneateles, N. Y.	53 Maywood
Clemons, Charles Murra y	30	Stamford, Conn.	35 Maywood
Coffyn, Kingsland Adams	29	New York City	Estabrook Hall
Colby, Kenneth Poole	31	Keene, N. H.	866 Southbridge
Colebrook, Ralph Leslie	31		11 Isabella
Collamore, Edna A.	s		15 Hadwen Lane
Comijn, Wilhelmina Anthonia	s	Goes, Holland	908 Main
Cornish, Albert Joseph	31	Cambridge	301 Cambridge
Coty, Everett William	28		5 Taft
Cove, Joseph Edward	28		
Cox, Flemm W.	G F	Urbana, Ill.	
Crawford, Harold Hewitt	Ec S	Mt. Pleasant, Iowa	
Cremins, Eugene Joseph	31	Roxbury	Estabrook Hall
Crook, Mason Nelson	Ps S	Westmstown, W. Va.	166 Woodland
Crosby, Kenneth Howard	29	Boston	973 Main
Cross, Hartley William	H F	Minalton, S. Australia	4 Mt. Pleasant
Crouch, Roger W.	s	Greenfield	48 Downing
Crowley, Paul Merrick	30	New Bedford	
Cunningham, Floyd F.	G S	Flat Rock, Ill.	38 Circuit Ave.
Curtis, John Gould	G g	Erie, Pa.	941 Main
Dahl, Randle Edwin	29		15 Edward
Davis, Harry Tashamka	29		27 Mulberry
Davis, Henry D.	31	Lexington	6 Charlotte
*Day, Odlin Hicks	31	Westboro	
Deeks, William Thomas	29	Whitinsville	
de Marco, Joseph, Jr.	31		
Dennis, Wayne	Ps S	Marietta, Ohio	158 Shrewsbury
Dexter, William Albert	28	Warren	166 Woodland
Diamond, Joseph	s		78 Florence
Diamond, Nathan	31	Hudson, N. Y.	15 Lawxow Rd.
Dickey, Robert Ira	30	Merrimac	Estabrook Hall
Dobie, Albert Joseph	30		Estabrook Hall
Doherty, Alfred John	29	Wilton, N. H.	12 Bay State Rd.
Donahue, Michael Aloysius	30		12 Oberlin
Dow, Richard Burt	Ph S		161 Institute Rd.
Duesel, Bernard Rock	29		84 Birch
Dymond, Emily			65 Stafford
Eagan, Henry Francis	Ec g		14 Beaconsfield Rd.
Eisner, Chauncey Anicet	Ch S		1 Freeland Terrace
Eklund, Chester Gabriel	31	Leominster	
Endlar, William	30	North Haven, Conn.	7 Hancock
Erickson, Albert Clarence	31	Brookline	20 Gates
Erickson, Franklin Carl	30		120 Rodney
Evans, Arthur George	28		15 Forestdale Rd.
Ewert, P. H.	s		315 Mill
Farrell, Albert LeRoy	Ps F	Hillsboro, Kansas	
Farrell, Wilfred Raphael	29		6 Beaverbrook Parkway
Feinsilver, Oscar	28	Watertown, Conn.	7 Hancock
Felt, Charles Winchester	30		57 South
Fisher, George Carroll	28	Northboro	
Foster, Edward Clark	30	Brockton	847 Main
*Fowler, Helen	30	Haydenville	78 Florence
Foxall, Thomas	s		40 Monadnock Rd.
Foxhall, Harry	Ps g		3 Homestead Ave.
Freedberg, Jacob	29	Shrewsbury	19 Ledge
*Frem, Harry Myer	28		46 Grand
Fryer, Francis Lawrence	31		42 Prescott
Gagne, Raymond Franklin	30		973 Main
Galley, Kenneth Taylor	30	North Andover	Estabrook Hall
Garber, Louis	31	Edgartown	Estabrook Hall
	31	New Haven, Conn.	Estabrook Hall

Jeffs, William

H.S.

100 Acushnet Av.

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NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Gardner, Gerald McCracken	30	Belvidere, N. J.	49 Florence
Gaucher, Adrian A.	29	Southbridge	52 Woodland
Gazan, Samuel Edgar, Jr.	31	Belmont	908 Main
Geary, Donald James	29	Leominster	19 Pleasant Pl.
Geldard, Frank Arthur	Ps F		39 Stoneland Rd.
Gervais, Roland Edmond	29		17 Hampden
*Gibbons, William Harold	31	Westboro	
Gissen, Max	31	Brattleboro, Vt.	
Gladding, Sadiean Kaull	B S	New Bedford	4 Downing
Goldberg, Milton Harold	30		27 Marion Ave.
Goldforb, Arthur Isaac	31	Dorchester	Estabrook Hall
Goldman, Nathan	29		9 Lamar Ave.
Goldstein, Samuel	31		59 Vale
Gooze, Charles	G F	Detroit, Mich.	Estabrook Hall
Goss, George Lee	28		15 Trumbull Sq.
Grace, Sydney	29		30 South Lenox
Graham, Clarence Henry	P S		14 Lewis
Grondahl, George Arvid	28	Maynard	908 Main
Haberman, James Charles	29	Holyoke	16 Tirrell
Haddad, Abraham	30		18 Wall
Haddad, William	31		18 Wall
Haines, Charles Grove	H S	Abbottstown, Penna.	Faculty House
*Haley, Jeremiah M.	s	West Warren	
Hannatta, Anna	G S	St. Johns, Mich.	35 May
Harden, Luberta Marie	Ps F	Charleston, Wash.	22 Downing
Harding, Kenneth Clarke	30		457 Park Ave.
Hargrove, Theodore Lincoln	30	Grafton	
Harrington, Wayne Everett	29	East Haven, Conn.	15½ Richards
Hartman, Raymond Porter	29		14 Larch
Harwood, Ernest Monroe, Jr.	30	New Britain, Conn.	53 Maywood
Hastings, Walter, Jr.	30	Webster	
Herbert, Rose, Mrs.	Ps g		749 Pleasant
Hickey, Thomas Joseph, Jr.	Eg g		54 Upsala
Hicks, Charles Roger	H F	Reno, Nevada	9 Hawthorne
Hidy, Ralph W.	H S	South Solon, Ohio	Estabrook Hall
Higginbottom, Arthur Raymond	31	Millbury	
Higginbottom, George	30	Millbury	
Hillman, Owen Norton	29	Edgartown	10 Charlotte
Hogan, Frances Helen	H g		3 Kilby
Hollis, Walter	30	Charlton	
Holmes, Kenneth Booth	H S	New London, Conn.	1048 Main
Holzhauser, Carl F.	G S	Detroit, Mich.	Estabrook Hall
Hopkins, Alfred Elmer	31	Central Village, Conn.	Estabrook Hall
Houston, Samuel Craig	s		4 Clement
Howard, John Philip	23	Hubbardston	
Howard, Walter S.	31		90 Richmond Av.
Hoyt, Edith Elaine	C S	Marietta, Ohio	
Huang, Yu-Jung	G S	Peking, China	166 Woodland
Hubbard, Arthur Dexter	29	Meriden, Conn.	Estabrook Hall
Hughes, Hartwell M. T.	28		34 Clark
Hutton, Edwin Wells	31	Lynn	Estabrook Hall
Jacobs, David Harold	30	Meriden, Conn.	14 Tirrell
Jaeger, Alden Merriman	31	Torrington, Conn.	Estabrook Hall
Johannsen, Dorothea Elizabeth	G F	Ithaca, N. Y.	4 Downing
Johnson, Edwin N.	31	Georgetown, Conn.	Estabrook Hall
Johnson, Robert Edward	Ec S	Palmer	4 Norwood
Johnston, Philip William	31		1 Hawthorne
Jones, Lloyd Charlton	29	Shelburne Falls	973 Main
*Jordan, John Louis	s		768 Main
Kaminsky, Harry	30	Burnside, Conn.	16 Tirrell
*Kane, Frank Roger	31	Rensselaer, N. Y.	
Kaneb, Albert Joseph	30		602 Grafton
Kaneb, George Dwight	31	Meriden, Conn.	602 Grafton
Katz, Leodore Irving	31		Estabrook Hall
Kellogg, Glenn Watson	31		35 Rankin
Kennedy, Melvin D.	29		17 Orchard
Kenworthy, Philip Warren	29	Springfield	78 Florence
Kinninney, Honora	H g	Millbury	
Kittredge, Mary E.	Hg s		828 Pleasant
Klingele, Arnold Herman	29		152 West
Kneller, George Frederick	30		164 Austin
Koeppe, Clarence Eugene	G F	Churchville, N. Y.	166 Woodland
Korobow, Samuel Irving	31	Brooklyn, N. Y.	Estabrook Hall
Korpi, Reino	31		18 Catherine
Kraemer, Irving	28	Clinton	7 Hancock

*Change of name based on affidavits

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Kremer, Abraham	29	Lowell	981 Main
Kropp, George Victor	8		37 Mill
Krutzky, Martin	31	Cohocton, N. Y.	1 Greenwood
Laakso, Eino Fred	28	Gardner	
Laakso, Wilko	8	Gardner	
Lagoudakis, Charilaos, G.	H F	Springfield	
Larkin, Charles Adrian	30	Stamford, Conn.	Estabrook Hall
Lee, Harriet Elizabeth	G S	Dundee, N. Y.	9 Hawthorne
Leeper, Robert Ward	Pa S	Terrace, Pa.	16 Gates
Lehnert, Frederick Oscar	28	New Haven, Conn.	Estabrook Hall
Levenson, Samuel	30		106 Salem
*Leveque, Bertrand Edmund	29	New Bedford	
Levett, Abraham	29	New Haven, Conn.	22 Shirley
Levine, Robert	30	Brooklyn, N. Y.	64 Arthur
Levitz, Aaron	29	Springfield	981 Main
Lindley, Lester Cline	H S	Union City, Indiana	13 Beaver
Lippincott, Stuart W.	29		14 Seaver
Lloyd, George William	Ec S	New York City	13 Benefit
Longbottom, Richard Parker	31	No. Grafton	
Lotz, William A.	8		4 Delwood
Lukens, Frank Nelson	29	Burlington, N. J.	35 Maywood
Luvisi, Fred Paul	29		51 Suffolk
McCarron, Andrew Thomas	31		66 Dover
*McDonald, Robert Earl	30		75 Townsend
*McEvoy, Thomas Spencer	s		718 Main
MacDowall, Edward William, Jr.	31		6 Bath
MacGeoch, John Bartle	28		40 William
Mahony, Richard	s	Boston	53 Maywood
Mansur, Lawrence Cutler	29		530 Park Ave.
Marble, Ernest Turner	31		10 Pattison
Marble, Frances Elizabeth	Hg		11 Clement
Marchant, William Everett	30		1 Aetna
Master, Moses	28	Yantic, Conn.	24 Oread
Mattson, Arthur Emil	30	Danbury, Conn.	908 Main
*Mercier, Harold Abraham	s		107 West
Mettler, Frederick Albert	29	Ridgefield Park, N. J.	156 Woodland
Meyer, Leo Julius	H F	Bridgeport, Conn.	28 Florene
Miller, Eileen Mae	B g		11 Oliver
Mills, Frederick Thomas	28		129 Austin
Mitchell, May Adelphia	G S	Manly, Iowa	
Moberg, Edgar August	30		1 Daguerre
Moore, Jonathan Frederick	30		112 Paine
Munn, Norman Leslie	S Ps	Adelaide, S. Australia	Y. M. C. A.
Murdock, Frederick Marean	30	West Boylston	
Navickas, Alphonse Joseph	s		3 Ashmont Ave.
Neary, Michael Thomas	s		205 Park Ave.
Needham, Donald Alonzo	30	Princeton	
Nicol, Everett	31		33 Millbury
Niman, William Arthur	29		101 Dorchester
Nordstrom, Joel	30		6 King
Northup, Francis F.	31	Bangor, Maine	Estabrook Hall
*Nygren, Ruben Theodore	s	Fitchburg	
Olds, John Bryant	31	New York City	Estabrook Hall
O'Malley, Martin Joseph	s		94 Vernon
O'Neill, John Arthur	29	Farnumsville	
*Ordyk, Joseph F.	30	Amsterdam, N. Y.	Estabrook Hall
Ostberg, William Verner	s		59 Fruit
Oswell, Mahlon Mackerow	31		4 Pelham
O'Toole, John Bernard	s	Clinton	
Page, John Lorence	G F	Norman, Okla.	166 Woodland
Palliola, Mario	s		275 Belmont
Palmer, Franklyn George	30	Springfield	Estabrook Hall
*Palmieri, Fiore Angelo	28	New Haven, Conn.	
Parker, John Jackson	30	Fairhaven	
Partridge, Leslie Walton	31		908 Main
Pasanen, Walter Richard	s		423 Pleasant
Payne, Roland W.	s		106 Rodney
Peltier, Charles Lester	30	Dalton	36 William
Perrin, Harold Henry	s		973 Main
Peterson, Ernest Gustaf	28		766 Main
Pettee, Virginia	s	Hartford, Conn.	3 Wilkinson
*Phelan Frank	s	New Britain, Conn.	Leicester
*Pitkin, Victor Ellsworth	30	Marshfield, Vt.	
Philbin, Richard Joseph	s		774 Main
Pollock, Morris	29	Lawrence	16 Shirley

Read Francis Arnold 30 Hambury, Ct.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
*Pomerat, Charles Marc	s	W. Springfield	
Popple, Arthur Scoville	31	Newport, R. I.	
Prator, Moina Martha	G F	Springfield, Mo.	2 Woodbine
Preissel, William Frederick	H F	New Britain, Conn.	12 Oberlin
Proctor, Thomas Everett	*	Sussex, N. B. Canada	
Pullinger, Richard Colby	31	E. Stroudsberg, Pa.	Estabrook Hall
Quinn, James	28		
Quint, Sigmund Julius	31	New Haven, Conn.	93 Cutler
Raphael, Ralph	29		Estabrook Hall
Revzin, Seymour	28		8 Ashmont Ave.
Rich, George Bradford	28	Fort Fairfield, Me.	28 Marion Ave.
Richards, Kenneth Bancroft	30		35 Maywood
Riley, Stephen Thomas	31		4 Montague
Ringoen, Andrew Theodore	29		35 Park Terrace Rd.
Rodnick, David	30	New Haven, Conn.	52 Highland
Rogers, Harry	30	Fairhaven	
Roth, Julius	30	Hartford, Conn.	973 Main
Rothman, Theodore	28	Bronx, N. Y.	Estabrook Hall
Roy, Joseph Lambert	30	Webster	16 Tirrell
Rucker, Robert William	G S	Normal, Ill.	Estabrook Hall
Sanford, Florence Clapp	s	North Grafton	131 Lovell
Sanger, Quintin Marcellus	28	Putnam, Conn.	10 Hancock
Sargent, Warren R.	H g		Worcester Academy
Schlesselman, George Wilhelm	G S	Victor, Iowa	941 Main
Schneider, Leonard R.	G S	Normal, Ill.	166 Woodland
Schonning, Carl Elmer	30		76 Whipple
*Schweitzer, Francis George	23	New Britain, Conn.	
Scott, Allan Charles	29	Westboro	
Scott, John Howe	30		804 A Main
*Seagrave, Raymond Francis	31	N. Uxbridge	2 Lincoln Pl.
Shanahan, Raymond Philip	29		18 Ormond
Shapiro, Louis Edward	31		5 Almont Ave.
Shea, John Morgan	*		153 Providence
Sheftel, Milton Samuel	31		Estabrook Hall
Sherman, Walter Roberts	31	W. Hartford, Conn.	129 West
Shipman, Fred Waldo	H g	Enfield, N. H.	70 Downing
Shipman, Julia Mary	G F		25 Woodford
Silverman, David	29	Fremont, Blundellsand	166 Woodland
Simkins, Ethel	G g	Lanes, England	
Simmonds, William Melvin	30	New Haven, Conn.	35 Maywood
Simonds, Stuart Howes	s		41 Maywood
Skinner, David Ludington	30		287 June
Slade, Frank David	30	Pearl River, N. Y.	35 Maywood
Slater, Robert Irving	30	Bernardston	7 Hancock
Smith, Abraham	28	Fitchburg	
Smith, Benjamin	29	Lowell	941 Main
Smith, Kenneth W.	*		866 Southbridge
Snell, Silvanus H.	30	Southbridge	Estabrook Hall
Solomon, Harry David	30		3 Flower
Southwick, Thomas Earle	30	Leicester	
Spadola, John Michael	28		60 Suffolk
Spaulding, Charles Clinton	30	Durham, N. C.	Estabrook Hall
Stevens, Frank Paul	30		8 Lawrence
Stewart, Walter Grant	29		19 Kingsbury
Stone, Robert	*	Schenectady, N. Y.	Estabrook Hall
Sullivan, John Joseph	28		2 Wyman
Susnitsky, William Harold	31	Danbury, Conn.	Estabrook Hall
Suzuki, Sadakichi	s	Tokio, Japan	Y. M. C. A.
Svenson, Sven Oscar	31		36 Holden
Swan, Paul Richard	Soc g		50 Holden
Swartz, Willis George	H F		3 Freeland
Swenson, Elaine Isabelle	Ps S	Seattle, Wash.	46 May
Swett, Elmer Lincoln	*		54 Grafton
Tabor, Osborne Bailey	Ch S	Southbridge	78 Florence
Tatham, Stanley Joseph	28		973 Main
*Taylor, James Henry	31	Gloversville, N. Y.	7 Mt. Pleasant
Ten Broeck, Edward Matthew	29		87 Florence
Tomajan, Russell	28		272 Burncoat
Toy, Charles Mallory	30	Chesapeake City, Md.	7 Hancock
*Tsuiji, Utaro	s	Tokio, Japan	
Twombly, Elwin Holbrook	31	St. Johnsbury, Vt.	Estabrook Hall
Ussher, Sydney Reynolds	30		10 High
Van Royen, Willem	G F	Utrecht, Holland	166 Woodland
Wagenhauser, Muriel Emmie	H AASF	Princeton, B. C.	26 Benefit

1 Wang, Sheng-Tsu
2 Webster, Piscilla

at Peking, China.
at 156 Springton, Mass.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
1 > Walden, William Wentworth	s Guilford, Conn.	6 Charlotte	
Wells, Newton Albert	31 Granby, Conn.	Estabrook Hall	
Welson, Milton Kibbe	29 Holyoke	16 Tirrell	Estabrook Hall
West, Boardman Adelbert	31 E. Pepperell		Estabrook Hall
*West, Frederick Myron	31 Haverhill		Estabrook Hall
Weymouth, Harold Davis	31 Fisherville		199 May
Whiting, Stanley Hartshorn	28		26 Woodford
Whitman, Samuel Milton	30		Estabrook Hall
Wiel, Theodore Alexis	s Springfield	3 Bernice	Estabrook Hall
Wilder, Frank Woodman	28		28 Carroll
Williams, William Larkin	30 Williamsville, Vt.		
Wilson, Ellsworth Clark	31		
Wilson, Frank Edward	30 Warren		
*Wiltshire, Helen Marguerite	Ps S Vigo, Ohio	15 Reservoir	
Winter, O. Frederick	30	11 Charlotte	
Winton, Hildreth Turner	30 Stratford, Conn.		
Wordell, Everett Job	30 Tiverton, R. I.		
Wright, Albert Charles	31		32 Gardner
Yerkes, Warren Albro	s Mulberry Grove, Ill.	856 Main	
Yoakley, Ina	G F Johnson City, Tenn.	2 Woodbine	
Zietz, Saul Charles	31 Meriden, Conn.	Estabrook Hall	
Zumpfe, Leroy Clifford	29 Webster		

1927 Summer School

Allison, Robert D.	Longmeadow, Mass.
Armstrong, Mary E.	Norton, Mass.
Asher, Leah	Worcester, Mass.
Atwood, Rollin S.	Worcester, Mass.
Atwood, Wallace R.	Worcester, Mass.
Avery, Eula V. (Mrs.)	Ann Harbor, Mich.
Banks, M. Albeita	New York, N. Y.
Bemis, E. Meda	Manchester, N. H.
Bergin, John A.	Boston, Mass.
Bigelow, Roger P.	Worcester, Mass.
Bingham, Christina	Nashua, N. H.
Bingham, Mary A.	Nashua, N. H.
Bissell, Malcolm H.	Worcester, Mass.
Blanchfield, Ellen W.	Easthampton, Mass.
Booth, Myrtle V.	Worcester, Mass.
Bordwin, L. Elaine	Montclair, N. J.
Bradley, Frederick A.	Chatham, N. Y.
Brewer, Margaret E.	Cleveland, Ohio
Brigham, Faith C.	Brockport, N. Y.
Brigham, Ruth M.	Worcester, Mass.
Brosnan, Isabel M.	Worcester, Mass.
Brown, Alice S.	Worcester, Mass.
Brown, Blanid M.	Worcester, Mass.
Brown, Charlotte C.	Millbury, Mass.
Brown, Virginia M.	Winchendon, Mass.
Bryant, Frank	Wilmington, Del.
Burr, Jane G. (Mrs.)	Worcester, Mass.
Cahoon, Howard C.	Wellesley, Mass.
Campbell, Anna L.	Harwich, Mass.
Carpenter, Louise	Worcester, Mass.
Cavanaugh, Teresa J.	No. Grafton, Mass.
Christenson, Mildred E.	West Boylston, Mass.
Clapp, John N.	Worcester, Mass.
Clark, Sarah E.	South Lancaster, Mass.
Clemson, Marie L. (Mrs.)	Gardner, Mass.
Clifford, Mae H.	Troy, N. Y.
Cole, Dale V.	Gardner, Mass.
Collamore, Edna A.	Farmington, W. Va.
Collins, Anna B.	Worcester, Mass.
Collins, Carrie M.	Mt. Vernon, N. Y.
Comtois, Claire A.	Worcester, Mass.
Corfield, George S.	Elmira Heights, N. Y.
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Cotterel, Mary E.	Reading, Pa.
Cronin, Helena D.	Worcester, Mass.
Cross, Hartley W.	Minlaton, So. Australia
Crowell, Ruth	Worcester, Mass.
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Henderson, Mildred A.	Whitinsville, Mass.
Hicks, Charles R.	Worcester, Mass.
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Houston, S. C.	Andover, Me.
Howe, Florence E.	Worcester, Mass.
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Hulbert, J. Iola	Detroit, Mich.
Hurley, Margaret T.	Worcester, Mass.
Hutter, Harry K.	Worcester, Mass.
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Jennings, Bertha L.	Willimantic, Conn.
Jennings, Frances	Brantree, Mass.
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Larkin, Charles A.	Stamford, Conn.
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Lee, Harriet E.	Manchester, N. H.
Lee, Margaret F.	Ithaca, N. Y.
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Lemaire, Minnie E.	Worcester, Mass.
Leonard, A. Loretta	Worcester, Mass.
Libby, Paul O.	Leicester, Mass.
Lincoln, Elisabeth M.	Leominster, Mass.
Lineen, Margaret E.	Baldwinsville, Mass.
Lohdell, Winston B.	Winchester, N. H.
Lombard, Helen F.	Worcester, Mass.
Lombard, Mildred	Worcester, Mass.
Lundgren, Evelyn	Worcester, Mass.

Lutz, Margaret	Detroit, Mich.
Lyman, Louie M.	Easthampton, Mass.
Lynch, Harold E.	Worcester, Mass.
MacManus, Mary	Great Barrington, Mass.
McGovern, Margaret M.	Worcester, Mass.
McGrath, Thomas S.	Worcester, Mass.
McKenna, Florence M.	Worcester, Mass.
McManus, Margaret E.	Worcester, Mass.
McQueeny, Theresa F.	Worcester, Mass.
Maddin, Vera C.	Tulsa, Okla.
Magovern, E. Idella	Lunenburg, Mass.
Maher, Lillian J.	Worcester, Mass.
Maher, Margaret E.	Worcester, Mass.
Mahoney, Rose M.	Worcester, Mass.
Maloney, Augustine F.	Blackstone, Mass.
Marble, Frances E.	Worcester, Mass.
Marble, Mildred	Leominster, Mass.
Marsh, Bertha R.	West Boylston, Mass.
Marumoto, Shingoro	Wakayama, Japan
Mason, Carol Y.	
Mayo, Barbara	Framingham Centre, Mass.
Means, Margaret	Bloomingtin, Ill.
Melaven, Ellen	Worcester, Mass.
Melton, Nell Lawson	Atlanta, Ga.
Michael, Henrietta	Muskogee, Okla.
Milton Theodora	New Rochelle, N. Y.
Moberg, Ina C.	Worcester, Mass.
Mowry, Mary E.	Worcester, Mass.
Mulcahy, K. Cecelia	Worcester, Mass.
Muldonian, Susan A.	Whitinsville, Mass.
Murphy, Maude A.	Worcester, Mass.
Murray, Margaret C.	Northampton, Mass.
Northup, Francis F.	Bangor, Me.
O'Connor, Eleanor C. (Mrs.)	Gardner, Mass.
O'Donnell, Kathryn R.	Worcester, Mass.
Olin, Paul A.	Worcester, Mass.
Osborn, Oressa	Spencer, Mass.
Otis, Flora E.	Oswego, N. Y.
Pasanen, Walter R.	Worcester, Mass.
Payne, Arvela	Middletown, N. Y.
Peabody, Harriet H.	Jefferson, Mass.
Peterson, Ebba A.	Worcester, Mass.
Picture, Lillian C.	North Grafton, Mass.
Powell, Blanche	Findlay, O.
Prouty, Etta F.	Shrewsbury, Mass.
Quinn, William J.	Worcester, Mass.
Rankin, Ethel M.	Worcester, Mass.
Reeves, Caroline M.	Jefferson, Mass.
Reidy, Thomas J.	Worcester, Mass.
Renbarger, Ethel A.	Marion, Ind.
Roberts, Catherine M.	Lowville, N. Y.
Roche, Lillian G.	Worcester, Mass.
Rood, Mabel L.	Ravenna, Ohio
Sanella, Frank	Worcester, Mass.
Sandford, Florence C. (Mrs.)	No. Grafton, Mass.
Santon, Sylvia	Worcester, Mass.
Schneider, Leonard R.	Normal, Ill.
Schwab, William K.	Atlantic City, N. J.
Selin, Florénce	Worcester, Mass.
Sheedy, Anna T.	Worcester, Mass.
Shrager, Arthur M.	Worcester, Mass.
Sibley, Mildred	Oberlin, Ohio
Silk, Ellen M. H.	Spencer, Mass.
Simmons, Anna E.	Fitchburg, Mass.
Simpson, Ethel C.	St. Johnsbury Center, Vt.
Small, Ralph L.	Worcester, Mass.
Sperry, Alice J.	Allentown, Ill.
Spurr, Loretta R.	Worcester, Mass.
Strasburg, Frederick R.	Wilbraham, Mass.
Swartz, Willis G.	Sterling, Kansas
Tenney, Amy T.	Antrim, N. H.
Thompson, Elizabeth G.	Worcester, Mass.
Thompson, Samuel J.	Pottersville, N. Y.
Todd, Louise B.	Waterbury, Conn.
Tolman, Ellen D.	Auburn, Mass.
Tolman, Louise D.	Worcester, Mass.

Underwood, Mabel	Shrewsbury, Mass.
Vail, Anna F.	New Bedford, Mass.
Van Vranken, Mabel D. (Mrs.)	Schenectady, N. Y.
Vaudreuil, Blanche (Mrs.)	Worcester, Mass.
Waite, Emma F.	Worcester, Mass.
Webster, Priscilla H.	Lexington, Mass.
Wells, Mildred E.	Williamantic, Conn.
West, Anthony J.	Worcester, Mass.
White, Ethel M.	Hull, Mass.
White, Helen M.	Washington, D. C.
Williams, Doris J.	Colrain, Mass.
Williams, Fanny P.	Colrain, Mass.
Wilson, Lois E.	Danbury, Conn.
Wood, Clifton	Worcester, Mass.
Wrightson, George F.	Worcester, Mass.
Yerkes, Warren A.	Witt, Ill.

Extension Students 1927-28

Adams, Marian E.	Murphy, Annie E.
Babcock, Anna M.	Novogrod, Lillian, Mrs.
Bérubé, Eva L.	O'Brien, Kathleen M.
Bowen, Grace L.	O'Connor, Delia G.
Bowen, Harriet M.	Ormsby, Martha E.
Bowen, Mildred R.	Ostrom, Abbie C.
Boyle, Harry A.	Perham, Roger M.
Boyle, William H.	Pettee, Virginia
Bryant, Nellie J.	Palley, Lillian A.
Buckley, Frances G.	Power, Ellen
Burns, Maria J.	Power, Gertrude C.
Butler, Julia A.	Power, Josephine
Butler, Kathryn	Power, Katherine L.
Callahan, Ellen G.	Prouty, Etta F.
Campbell, Anna L.	Rankin, Ethel M.
Campbell, Elizabeth S.	Regan, Ellen F.
Carroll, Margaret	Regan, Mary E.
Casey, Irene C.	Roche, Lillian G.
Cavanaugh, Teresa J.	Rome, Sophie
Clark, Helen M.	Salmon, Edward P.
Coffey, Grace C.	Savage, Elizabeth
Collins, Carrie M.	Sayle, Harriet A.
Comijn, Wilhelmina	Sayle, Mary E.
Conner, J. Eva	Schultz, Anna, Mrs.
Conroy, Anne C.	Scott, Mary L.
Cornish, Virginia R.	Seder, Jeanette R.
Costello, Florence P.	Seder, Susan R.
Coté, Mabelle E.	Scharfman, Dora
Cox, Annie F.	Scharfman, Ethel B.
Craffey, Frances	Sharkey, Mary
Cunningham, Floyd F.	Shattuck, Anna W.
Cunningham, Mary E.	Shea, Elizabeth M.
Curley, Elizabeth G.	Silk, Ellen M. H.
Currie, Marion C.	Simkins, Ethel
Daley, Katherine M.	Sinnott, Alice E.
Davis, Ella G.	Smith, Flora
Deignan, Alice E.	Smith, Marian
Delaney, Mary F.	Snow, Edith A., Mrs.
Diggins, Grace L.	Stanton, Cora A.
Diggins, Helen B.	Stockdale, Louise A.
Donnelly, Mary T.	Stockwell, Carrie L.
Donohue, Alice G.	Sullivan, Gertrude M.
Doran, Francis J.	Sullivan, J. Agnes
Doyle, Catherine A.	Sullivan, Mary J.
Drohan, Alice R.	Surabian, Mabel M.
Drohan, John	Traynor, Catherine T.
Drumm, Francis A.	Twiss, Marion D.
Farnan, Alice I.	Ward, Mary L.
Fowler, Helen	Wheeler, Harriet E.
Galvin, Della E.	Whitman, Annie B.
Galvin, Mary R.	Wilmouth, Irene F.
Gentle, Mary	Yerovitz, Beatrice

Summary 1927-28

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SIXTEEN
MECHANIC STREET SPENCER
MASSACHUSETTS

Clark University Bulletin

NUMBER 61

MARCH, 1928

Home Study Courses

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Clark University School of Geography

with announcement of

Clark University Summer School for 1928

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HOME STUDY DEPARTMENT

WORCESTER, MASSACHUSETTS

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Clark University offers excellent facilities both for undergraduate and graduate work in Geography and in the closely related departments of History and International Relations; Economics and Sociology. Geography may be pursued by undergraduates as a major or a minor subject. Graduate students may continue their work in Geography for the degrees of Master of Arts and of Doctor of Philosophy.

Steady and satisfactory progress in the study of geography may be accomplished by teachers in service through the Home Study Department and the Summer School of Clark University. Home Study Courses in geography are available at any time in both the educational and academic phases of the subject. These courses are fully described in this Bulletin. The Summer School offers exceptional opportunities to teachers of geography during the vacation period. Full information concerning courses and degrees in Geography and in other departments of the University is contained in the Annual Catalogue, which will be sent to any address on request.

All geography work of Clark University is carried on by the Graduate School of Geography, which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well-equipped building, including lecture rooms, offices, and workrooms. The Geography Building is directly connected with the University Library. The extensive and growing collection of maps installed in the main workroom of the Geography Building is an integral part of the University Library.

The Geography Workroom is equipped with individual office desks for thirty advanced students. These desks are assigned to special students of geography during the academic year and during the Summer School. Abundant shelf space for books and numerous racks for display of maps for detailed study are found in the workroom. One section of the workroom is equipped with large drawing boards, a large glass-top table, and with first-class drawing instruments for the construction of maps and graphs for classroom work, thesis work, or for publication. A systematic course in Graphics and Cartography is given regularly each academic year and in the Summer Session.

The teaching staff of the School of Geography is of sufficient size to extend to students personal direction and ad-

vice whenever needed. The numerous research courses offered at all times give ample opportunity for advanced students to profit by the personal assistance of experts in the various fields of research.

The Geography Staff

The Geography Staff, during the academic year 1926-27, consisted of the following persons:

WALLACE W. ATWOOD, PH.D., President of the University, Director of the Graduate School of Geography, Professor of Physical and Regional Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education, Director of the Summer School, Director of Home Study.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Managing Editor, *Economic Geography*.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

S. VAN VALKENBURG, D.Sc., Assistant Professor of Geography.

GUY H. BURNHAM, A. M., Cartographer.

WALLACE R. ATWOOD, A. M., Assistant in Physiography. (1927-1928.)

CARLTON P. BARNES, A. M., Research Fellow, Plant Geography. (1927-28.)

J. HERBERT BURGY, A.M., Research Fellow, Economic Geography. (1927-28.)

CHARLES GOOZE, A.M., Research Fellow, Economic Geography (1927-28.)

CLARENCE E. KOEPPE, A. M., Research Fellow, Climatology, (1927-28.)

JOHN L. PAGE, A.M., Research Fellow, Climatology. (1927-28.)

JULIA SHIPMAN, A.M., Research Fellow, Geography. (1927-28.)

GRAGG RICHARDS, PH.D., Research Assistant, Climatology. (Jan.-Feb., 1928.)

WILLIAM VAN ROYEN, A. M., Research Fellow, Regional Geography. (1927-28.)

J. HENRY WEBER, A.M., Research Assistant, Climatology. (Oct.-1927-Feb., 1928.)

HARLEY P. MILSTEAD, A.M., Research Fellow, Regional Geography. (1927-28.)

HOME STUDY COURSES IN GEOGRAPHY

Home Study Courses in Geography are offered as a part of the work of the School of Geography. These Home Study Courses are designed to be of special value to teachers in service, to students who may wish to secure college credits while not in residence, and to persons who may wish to have the benefits of directed study and reading.

HOME STUDY COURSES FOR TEACHERS IN SERVICE

The Home Study Courses enable teachers to relate their directed study immediately to their geography teaching of the year. Five courses are offered in the Teaching of Geography. One of these courses gives a general survey of the entire course of study in the geography of the elementary school and junior high school. The other four courses treat subject matter and method of presentation of selected units of study suitable to one or two years of school work. These courses are of special value to the grade teacher who wishes assistance in geography work and to the special teacher of geography whose efforts are concentrated on the geography work of one or two grades.

The Home Study Courses also enable teachers in service to pursue the study of geography extensively in its academic phases. Thirteen academic courses offer opportunity to choose regions or subjects of special interest. A course in Industrial and Commercial Geography is of immediate value to the teacher of Commercial Geography or Economic Geography. Four courses are devoted to detailed studies of the various continents.

The courses in Physical Geography and in Weather and Climate are of immediate value to the teacher of Physiography, and give to the teacher of any grade basic knowledge needed by every teacher of geography.

The course in Mathematical Geography gives an extended study of those fundamental relationships between the earth and the sun which are of great significance but rarely understood by the teacher well enough to be handled with assurance on all occasions in all grades. The course in Graphics and Cartography gives instruction which will enable the teacher to construct graphs and charts of immediate class-

room value, and to direct capable pupils in the construction of graphs and maps for class use.

The value of these various Home Study Courses to teachers in service is evidenced by the fact that junior high school teachers have taken three or more courses in succession during a period of three or four years. Normal school teachers have found the courses suitable for their work and have taken several courses in succession. College teachers have been able to strengthen their own college courses by pursuing systematically these Home Study Courses. One college professor completed five Home Study Courses in rapid succession.

HOME STUDY COURSES AND COLLEGE DEGREES

Each Home Study Course here offered carries a college credit of three semester hours. A degree cannot be earned by home study courses alone, but credits obtained by home study are credited toward the bachelor's degree at Clark University, and are transferable to other institutions under their own rules for accepting home study credits. Many teachers have earned their first credits at Clark University through home study courses, and some have later continued their work at Clark University Summer School for the degree of Bachelor of Education, for which 120 semester hours of college credit are required, with at least 30 hours earned in residence at Clark University, either during Summer School sessions or during the academic year.

The Master's Degree in Geography may be earned at Clark University by *at least* three summer sessions of graduate work and one semester of the academic year; or by a full academic year. Home Study Courses do not give graduate credit, but the necessary foundation work of undergraduate requirement may be completed through home study courses of appropriate character. Experienced teachers now holding advanced degrees in geography from Clark University, began their studies at Clark University through home study courses.

Home study courses are not a substitute for a college education, but they effectively supplement college work, and furnish the teacher in service a convenient and an ever-present means of pursuing selected lines of study under specific and competent personal direction.

HOME STUDY COURSES FOR SUMMER CREDIT

Teachers who cannot attend Summer School may make satisfactory advancement in the study of geography during vacation. Many teachers have availed themselves of this opportunity by completing one or two home study courses during the summer vacation. Two home study courses give the same amount of college credit as is usually given for a summer session of six weeks. A home study course may be started before the close of the school year and be completed promptly during the vacation period. Teachers have been given the same credit for professional advancement for home study courses as for courses taken in residence.

RECOGNITION OF CREDITS BY OTHER INSTITUTIONS

Students have occasionally inquired about the recognition of credits by certain school systems and by certain educational institutions.

The Board of Examiners for the city of Chicago has approved these courses at full value for promotional credits for the teachers of Chicago.

The Department of Public Instruction for various states have approved these courses for credit toward certification in the state school system.

A number of Universities and State Teacher's Colleges have agreed to accept these courses at full value when students wish to transfer credits to the respective institutions.

CREDITS AND TUITION

Each course, when satisfactorily completed, carries a college credit of three semester hours, the equivalent of a college course taken in residence, meeting three times per week for one semester of 18 weeks. Each course consists of 36 written lessons, the preparation and the writing of which require about four or five hours each.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time. It should be completed within twelve months after enrollment.

NOTE TO SCHOOL SUPERINTENDENTS

This announcement is sent to many school superintendents with the hope that the information will be made available to the teachers of geography in the school system. Additional copies of this announcement will be sent to superin-

tendents, on request. If a school directory is sent to the Home Study Department, announcements will be sent to all school principals. Through these home study courses in geography Clark University wishes to extend its services as widely as possible for the betterment of the teaching of geography in the schools.

Work on any course may be started promptly by selecting the course desired and sending the tuition fee, made payable to the order of Clark University. Full details and the complete set of lessons will then be forwarded without delay.

Sample lessons of any course will be sent on request, accompanied by a statement of the scope and purpose of the course and a complete list of books required for the course.

Address:

CLARK UNIVERSITY
Home Study Department
WORCESTER, MASSACHUSETTS

List of Home Study Courses

The following is a list of the Home Study Courses with the names of the persons who prepared the various courses for the Home Study Department.

COURSES IN THE TEACHING OF GEOGRAPHY

1. **The Teaching of Geography in the Elementary School.** PROFESSOR RIDGLEY.
2. **The Teaching of Home Geography and World as a Whole.** PROFESSOR RIDGLEY and H. HARRISON RUSSELL, Professor of Geography, State Teachers' College, Bloomsburg, Pennsylvania.
- 2a. **The Teaching of Third Grade Geography Based on the New York State Syllabus.** PROFESSOR RIDGLEY and MARION B. FORSYTHE, Supervisor of Geography, State Normal School, Potsdam, New York.
3. **The Teaching of North America.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
4. **The Teaching of South America, Europe and Asia.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
5. **The Teaching of Geographic Factors and the United States in Its World Relations.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.

ACADEMIC COURSES IN GEOGRAPHY

6. **Industrial and Commercial Geography.** PROFESSOR RIDGLEY.

7. **Geography of North America.** PRESIDENT ATWOOD.
8. **Geography of South America.** PROFESSOR JONES.
9. **Geography of Europe.** PROFESSOR RIDGLEY and JOHN L. PAGE, Research Fellow, Clark University.
10. **Geography of the Eastern Continents.** PROFESSOR RIDGLEY and PROFESSOR RUSSELL.
11. **The Physical Geography of the Lands.** PRESIDENT ATWOOD.
12. **Weather.** PROFESSOR BROOKS and MR. CLARENCE E. KOEPPPE, Assistant in Climatology, Clark University.
13. **Elements of Climatology.** PROFESSOR BROOKS and MR. KOEPPPE.
14. **Climates of the World.** PROFESSOR BROOKS and MR. KOEPPPE.
15. **Climatology of the United States.** PROFESSOR BROOKS and MISS FRANCIS V. TRIPP.
16. **Mathematical Geography.** MR. BURNHAM.
17. **Graphics and Cartography.** MR. BURNHAM

DESCRIPTION OF COURSES

The following brief descriptions of the courses give a general notion of the scope and purpose of each course. Use the order blank on the last page of this pamphlet for requesting sample lessons of the home study courses in which you are interested.

COURSES IN THE TEACHING OF GEOGRAPHY

1. **The Teaching of Geography in the Elementary School.** This course is of interest to teachers, principals, and supervisors. It deals with geography method as applied to the systematic development of a course of study through the elementary school and the junior high school. It is comprehensive in scope, giving specific aid in selecting content and method of presentation in the various grades in which geography is studied. Recent courses of study are examined and recent books on the teaching of geography are studied.

2. **The Teaching of Home Geography and World as a Whole.** Specific directions are given for the development and presentation of these two aspects of the early geography work. A study of the home community is outlined and field lessons suggested. Sources for an elementary study of the World as a Whole are indicated and suitable references studied. This course deals with the content and method of presentation of that part of the course of study in geography which precedes a detailed regional study of continents.

- 2a. **The Teaching of Third Grade Geography Based on the**

New York State Syllabus. This course deals specifically with the subject matter and method involved in teaching Third Grade Geography or Home Geography as outlined in the New York State Syllabus, issued by the New York State Department of Education. The preliminary lessons develop a broad foundation in the teaching of geography, and succeeding lessons develop systematic and definite plans for concrete presentation of the year's work, topic by topic. Selected readings are assigned. Observational work and field lessons are outlined for the home locality of the student. Provision is made for adequate use of the materials provided by the Division of Visual Instruction of the State Department of Education.

3. **The Teaching of North America.** Subject matter and method are presented for the regional study of the home continent. Specific use is made of standard textbooks, outline maps, supplementary readers, and other reference books. The organization of the course is suitable for use with pupils making their first detailed study of a continent. The student makes a comprehensive and detailed study of North America from the teacher's point of view, and organizes the information obtained for immediate and effective classroom use.

4. **The Teaching of South America, Europe, and Asia.** A survey of each continent is made with an organization suitable for classroom presentation. Extensive readings and specific map studies furnish the teacher with the necessary knowledge for the teaching of these continents. Suitable problems and projects are developed in the lessons. The course proceeds from the teacher's point of view and results in developing the scholastic and the pedagogical aspects of study side by side to the advantage of both phases of the subject.

5. **The Teaching of Geographic Factors and the United States in Its World Relations.** A suitable course is developed for upper grammar grades and junior high school. Specific aid is given in the study of mathematical geography and geographic factors of world-wide importance. A study of the United States in comparison with other parts of the world serves to summarize the geography work of previous years. In this course the student obtains a systematic survey, from the teacher's point of view, of the geographic factors and geographic principles necessary to the presentation of the causal relationships in geography. The relation of

the United States to other nations of the world is developed in this final study in grammar school geography.

ACADEMIC COURSES IN GEOGRAPHY

6. **Industrial and Commercial Geography.** This course is of interest to teachers of commercial geography or economic geography in high schools, normal schools, and colleges. The study includes a systematic examination of the agricultural, manufacturing, and commercial activities of the world. The chief commodities are studied from a world-wide point of view. Countries and continents are compared with reference to natural resources and productive power.

7. **Geography of North America.** This course is based upon a regional treatment of the continent. The natural geographic regions form the basis for the subdivision of the continent. The political and economic geography is appropriately treated, and the bearing of geography upon American history is included in the study of the continent. This course furnishes the grade teacher a rich fund of information for illuminating the geography work of intermediate grades. Normal school and college teachers will find the course helpful in amplifying their own classroom courses.

8. **Geography of South America.** The first lessons of the course deal with the larger geographic features of the continent as a whole. Then follows a study of the several republics of South America from the standpoint of natural environment, resources, human activities and foreign trade. Use is made of the most recent and authoritative materials. The student, teacher, and business man will find this course of interest and value. The course traces the amazing development of various parts of the continent during the last half century. The latter lessons again treat the continent as a whole, relating the South American countries to each other and to the rest of the world.

9. **Geography of Europe.** In this course, Europe is treated as a whole in the first seven lessons. In lessons 8 to 33, inclusive, the natural regions of the continent are treated in considerable detail. The final lessons again treat Europe as a whole, in its commerce and distribution of population. The course will serve as a good foundation for the teaching of the geography of Europe or as a background for the study of European history.

10. **Geography of the Eastern Continents.** This study deals with the geography of Asia, Africa, and Australia. The fundamental geographic factors of each continent are treated

in relation to the distribution of population and the human activities of the various regions. Emphasis is given to those regions where most people live. The wide extent of the areas treated brings into sharp contrast all types of land forms and climatic conditions.

11. The Physical Geography of the Lands. Through a series of carefully selected problems, with laboratory material and special references, the student is guided to an appreciation and understanding of the fundamental principles involved in that phase of physiography which leads to an understanding of the physical features of the earth's surface. A special series of topographic maps, issued by the United States Geological Survey, is used as a basis for laboratory work. This course is of immediate value to teachers of physiography in high school, normal school, or college.

12. Weather. Weather is an ever-present geographic factor, readily observed, and much discussed. This course is designed to give the student an appreciative understanding of the everyday weather conditions and weather processes. Simple observations of the weather elements are made, and their interpretation leads to the problems of weather forecasting. Elementary meteorology is studied with emphasis upon those topics of special interest and value to the teacher as well as the general student. This course gives the teacher a grasp of the facts of weather not readily obtained from books.

13. Elements of Climatology. This course aims to give the student a basic understanding of all the factors which make up the climate of any place. The effects of land and water, of mountains, of ocean currents, and so on, are taken up, and followed by a treatment of the climatic belts of the world and the various types of climate such as continental, monsoon, and savanna. This course is of interest to the general student. It gives specific aid to teachers of geography in leading them to a keener appreciation of the influence of climate on man and his activities.

14. Climates of the Continents. Since climate is an ever-present and powerful influence in the natural environment of man, a systematic and detailed study of the climates in which people live is of prime importance to all students and teachers of geography and history. This course develops an understanding of the climates of the various continents and islands of the world. The topics are simply treated and this course

may be taken as the first in a study of the climatic conditions of the world. This course is especially adapted to be of immediate value to all teachers of geography.

15. **Climatology of the United States.** This course is a more advanced treatment of climatology as applied to the United States, and may be taken by those who have taken Courses 12 and 13 or their equivalent. The work of this course is based largely upon the recent book, "The Climates of the United States," by Professor R. DeC. Ward of Harvard University. Teachers who give much time to the study of the United States will do well to take this course, or, at least, to use Professor Ward's great book for study and for reference.

16. **Mathematical Geography.** An understanding of the earth's relations to the sun, moon, and other heavenly bodies is necessary to the development of clear and accurate geographic concepts. This course includes a study of the seasons, changing length of day and night, latitude, longitude, time, and the calendar. The principal constellations are observed and studied. The student obtains a comprehensive view of mathematical geography, and the material of the course is readily adapted to the requirements of the geography work in any grade.

17. **Graphics and Cartography.** An understanding of graphs and maps is necessary in any study of geography. This course gives the student ability to take printed data and to construct accurate graphs and maps. The actual construction of a few graphs and maps gives the student increased ability to read more intelligently, and more rapidly, the numerous graphs and maps studied in geography and other subjects. This study enables the student to prepare graphs and maps for class use or for individual study.

18. **Special Studies in Geography.** Students who have had several courses of college grade in geography may pursue special studies under the personal direction of members of the teaching staff in the School of Geography of Clark University. This work may be undertaken only after personal correspondence and proven ability to pursue the work with profit. Correspondence is invited concerning any field of special interest.

THE SUMMER SCHOOL

The Clark University Summer School for 1928 holds its session for six weeks, Monday, July 2, to Friday, August 10. The Summer School is organized for the special benefit of teachers of Geography, History, and a few related departments. The courses offered for 1928 are as follows. Courses marked with an asterisk (*) are primarily for advanced students.

GEOGRAPHY

SS101	Geography of North America	DR. EKBLAW
*SS23	Geography of Asia	DR. VAN VALKENBURG
SS102	Geography of a World Cruise	DR. RIDGLEY
SS14	Economic Geography	DR. VAN VALKENBURG
SS12	Weather	MR. KOEPPE
SS122	Climates of the World	MR. KOEPPE
SS181	The Teaching of Geography ..	PROFESSOR McCLELLAN
SS180	Materials in Geography	DR. RIDGLEY and MR. BELKNAP
SS191	Graphics and Cartography	MR. BURNHAM
SS190	Mathematical Geography	MR. BURNHAM
SS11	Field Work in Geography	DR. EKBLAW
*SS27	Influences of Geographic Environment ..	DR. EKBLAW
*SS28	Geography in Education for Special Teachers	

DR. RIDGLEY

*SS280	Laboratory Course in the Teaching of Geography	PROFESSOR McCLELLAN
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*SS204	Transcontinental Field Trip	DR. JAMES
	New York State Field Trip	MR. BURNHAM
	Dutch and Quaker Colonies Field Trip	PROFESSOR BYE
*SS30	Seminar in Geography	THE GEOGRAPHY STAFF
*SS300	Research in Regional Geography	DR. EKBLAW
*SS32	Research in Climatology	MR. KOEPPE
*SS34	Research in Economic Geography	

DR. VAN VALKENBURG

GEOLOGY

SS1	Physical Geology	DR. LITTLE
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HISTORY

*SS21	The History of Europe, 1500 to 1815	DR. LEE
*SS22	European International Relations, 1870-1925	DR. LEE
*SS23	American Intellectual History, from the Colonial Period to the Present Time	DR. CURTI
*SS10	American History, 1783-1865	DR. CURTI
SS151	Problems in American Government	PROFESSOR LEE
SS16	The Teaching of History in Junior and Senior High Schools	PROFESSOR BYE
SS11	Field Work in History	PROFESSOR BYE

ECONOMICS AND SOCIOLOGY

SS2	Problems of Economics	DR. BRANDENBURG
*SS5	The Tariff in Theory and Practice	DR. BRANDENBURG
SS8	Educational Sociology	DR. WILLARD
*SS9	Social Problems	DR. WILLARD

PSYCHOLOGY AND EDUCATION

SS5	The Problem of Learning	MR. GELDARD
SS9	Classroom Activities and Equipment	
SS10	Visual Aids in Instruction	PROFESSOR GREGORY
SS11	Tests and Measurements Applied	PROFESSOR GREGORY

ENGLISH

SS2	Studies in Romanticism: Shelley and Keats	DR. DANIELS
SS4	Contemporary Fiction, British and American	DR. DANIELS
SS5	Dramatics	PROFESSOR ILLINGWORTH
SS15	Fundamentals of Public Speaking	PROFESSOR ILLINGWORTH

FRENCH

SS1	Elementary French	DR. CHURCHMAN
SS2	Reading of French Prose	DR. CHURCHMAN

GERMAN

SS1	Elementary German	MRS. HODGE
SS1	Grammar Review and Reading of German Prose	MRS. HODGE

The Summer School for 1929 will present a similar program. The Summer School Bulletin for 1929 will be ready for distribution in February, 1929.

TWO BIBLIOGRAPHIES AND A MONOGRAPH FOR TEACHERS OF GEOGRAPHY

Two bibliographies of value to teachers of geography have been prepared while their authors were graduate students in Clark University School of Geography. These bibliographies offer teachers, supervisors, and superintendents recent and reliable information concerning the published materials available for the reading and study of teachers and pupils. A monograph on place geography by Douglas C. Ridgley, Professor of Geography in Education, Clark University, has just been issued.

1. Frederick K. Branom: *A Bibliography of Recent Literature in Geography*.

ture on the Teaching of Geography. Fifth Revised Edition, 1927. Price 25c. More than 600 references to books and magazine articles are classified under 22 topical headings. The list of books from which references are taken constitute a select list for any library. The magazine references are brought forward in this revision to May, 1927.

2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School.* 1926. Price 25c. More than 500 books suitable for reading by pupils of the elementary school and the junior high school are listed. Annotations give the chief characteristics of the books, and indicate the grades for which the books are suitable.

3. Douglas C. Ridgley: *A Study of Children's Learning about Places.* 1928. Price 80c. This monograph of 142 pages presents the results of an extensive investigation of pupil interest in place geography based on the co-operation of 127 teachers and 5,544 pupils. The study is of immediate interest and practical value to teachers of geography and history. It will aid teachers to give place geography its proper place as a necessary part of the regular courses in geography and history. Thirty graphs and twelve tables based on reports from 5,554 pupils are interpreted in a way to enable teachers to make place geography function in the learning processes in geography and history.

These three publications will be sent to any address, postpaid, for \$1.00, in a single order.

Address:

CLARK UNIVERSITY
Home Study Department
WORCESTER, MASSACHUSETTS

A MAGAZINE FOR GEOGRAPHY TEACHERS

Economic Geography is a quarterly journal published by Clark University for the benefit of geographers, economists, teachers, professional and business men, and all who are interested in the intelligent utilization of the world's resources. The articles published in *Economic Geography* cover many phases of industry and commerce for the United States and

for the world. Its pictures and maps are recent and authentic. Each number is a volume in itself filled with authentic and interesting geographic information.

Subscription rates are \$5.00 per year.

For further information address: *Economic Geography*, Clark University, Worcester, Mass.

MATERIALS IN GEOGRAPHY

At the urgent request of many teachers, Clark University is undertaking to assemble and distribute literature and museum specimens of special value to teachers and pupils of geography. The departments of the United States Government, transportation companies, tourist bureaus, manufacturing concerns, merchants, importers, and representatives of foreign governments and foreign commercial houses are extending generous and cordial assistance in this co-operative effort. A recent summary showed that 115 organizations had sent material which included 700 different publications and much museum material for exhibits.

Clark University distributes these materials through its Home Study Department. A nominal charge is made to cover cost of collecting, classifying, and shipping the materials. *All packages are sent postpaid.*

PRINTED MATERIAL

A package of thirty or more pamphlets, maps, and booklets of value in geography will be sent to any address on receipt of \$1.00. Due consideration will be given to requests for material covering certain phases of geography, such as, Home Geography, World Geography, Food, Clothing, Shelter, Transportation, Manufactures, United States, Foreign Countries as indicated in the order, Commercial Commodities as indicated in the order, and other topics that may be mentioned.

With the growing interest and co-operation among commercial houses in this endeavor, extensive and helpful lists of publications are being assembled. Representatives of foreign countries are making available valuable material not obtainable by the individual school or teacher. A larger assortment of material is desired for \$2.00, \$3.00, \$4.00, or \$5.00. If more material is desired than can be sent for \$1.00, enclose a larger amount. Each dollar after the first will secure a larger supply than the first because of decreased cost in packing and in parcel post charges. These packages contain a

larger amount of valuable material than can be obtained by the individual school or teacher at a similar expenditure for postage alone. This co-operative plan is resulting, also, in securing for distribution much excellent material not previously available by individual request.

GEOGRAPHICAL MUSEUM EXHIBITS

Exhibits of important products will be furnished at cost of preparation and transportation. Manufacturers, producers, and importers are generous in supplying materials in bulk. These are prepared in convenient form for examination and study. The specimens are placed in glass tubes, sealed, and labeled. Most of the exhibits are accompanied with appropriate literature.

The tubes may be exhibited on a desk or table in the school-room, or they may be passed around among the pupils for careful examination under the supervision of the teacher. The tubes containing the specimens may be mounted by the teacher and pupils on wood, composition board, beaver board, or other suitable material, with maps and pictures pertaining to the specimens, thus making an attractive exhibit easily and effectively displayed.

The nominal charge made for these exhibits is necessary to cover the cost of securing the materials, preparing the exhibits for classroom use, packing them for shipment, and for transportation charges. The order blank on page 19 may be used in ordering these museum materials.

MUSEUM EXHIBITS NOW AVAILABLE

Asbestos	1 sample with literature	\$.20
Asphalt	2 samples with literature	.30
Cereals	17 samples with literature	2.00
Cocoa	4 samples with literature	.50
Coffee	6 samples with literature	.70
Cotton	5 samples	.60
Fertilizers	12 samples with literature	1.30
Fuels	7 samples	.80
Minerals	10 samples	1.50
Naval Stores (pine-tree products)	16 samples with literature	1.00
Portland Cement	8 samples with literature	.80
Seeds	11 samples	1.20
Shellac	4 samples with literature	.50

Soils	7 samples with literature	.80
Spices	29 samples with literature	3.00
Sulphur	3 samples with literature	.40
Tea	8 samples with literature	1.00
Woods	14 samples with pictures of trees	1.80

DISCOUNTS. If an order amounts to \$5.00 or more, deduct ten per cent. If the entire set of exhibits is ordered at one time, deduct twenty per cent. Orders from individuals should be accompanied by full payment in any convenient form. Orders from Boards of Education may be made according to their usual plans for purchasing school supplies.

Correspondence is invited. Address:

CLARK UNIVERSITY
Home Study Department
 WORCESTER, MASSACHUSETTS

ORDER BLANK FOR GEOGRAPHICAL MUSEUM EXHIBITS

Clark University,
Home Study Department,
Worcester, Massachusetts.

Please send the exhibits checked in the following list:

Asbestos	\$.20	Naval Stores	\$1.00
Asphalt	.30	Portland Cement	.80
Cereals	2.00	Seeds	1.20
Cocoa	.50	Shellac	.50
Coffee	.70	Soils	.80
Cotton	.60	Spices	3.00
Fertilizers	1.30	Sulphur	.40
Fuels	.80	Tea	1.00
Minerals	1.50	Woods	1.80

Enclosed find \$ in full payment for this order.

NOTE. If the order is for \$5.00 or more, deduct ten per cent; if it is for the entire set of exhibits, deduct twenty per cent. All shipments are sent postpaid.

Please mark the package as follows:

Name

Street and number

City and state

Very sincerely yours,

Date

ORDER BLANK

Clark University,
Home Study Department,
Worcester, Massachusetts.

Please send me the explanatory statement and sample lessons of the Home Study Course entitled:

Title of Course _____

Name _____

Address _____

Position _____

You may also send the other items checked on this form:

- [] Summer School Bulletin for 1928. No charge.
- [] Summer School Bulletin for 1929, ready in February.
No charge.
- [] Annual Catalogue of Clark University. No charge.
- [] Statement of the requirements for the degree Bachelor
of Education at Clark University. No charge.
- [] Further information about the Quarterly Journal, *Eco-
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